

EMERGENCY ACTION PLAN

**LEBO LAKE
NORTHWEST, NORTHEAST AND EAST DAMS**

**AMERICAN FORK RANCH
Jed Evjene, Manager
and
THE GLENNIE RANCHES
Jane Glennie, Manager
Two Dot, Montana 59085**

May 21, 2001

*updated 6/16/02
6-30-02
6-4-04*

*6-1-06
10-7-07
1-19-09
2-15-10*

If Lebo Lake's Northwest, Northeast, or East Dam is failing or failure seems imminent, call:

Wheatland County Sheriff..... 911 or 632-5614

Disaster and Emergency Services 632-5815 or ~~632-4615~~

American Fork Ranch, Jed Evjene, Manager..... ~~632-4480~~ or 537-4405
300

The Glennie Ranches, Jane Glennie, Owner/Manager..... 632-4159

C-J. Ranch LLC

632-4480

*Stan Stevens
Pam*

William Stevens

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I. INTRODUCTION

A. Purpose

The purpose of this emergency action plan (EAP) is primarily to safeguard the lives of and secondarily to reduce property damage to the citizens of Wheatland County living near Big Elk Creek, Lebo Creek, American Fork Creek and the Musselshell River, in the event of flooding caused by a failure of Lebo Lake Northwest, Northeast, or East Dams.

B. Description of Dam

Lebo Lake Dams are in Wheatland County. The northwest dam is in Section 36, Township 7 North (T7N), Range 13 East (R13E); the northeast dam is located in Section 31, T7N, R14E; and the east dam is in Section 1, T6N, R13E. Lebo Lake is an off-stream storage impoundment, located in a natural depression which has three drainages leading from it. Failure of the northwest or northeast dams would release water into Big Elk Creek, a tributary to the Musselshell River. Failure of the east dam would release water into Lebo Creek, a tributary of American Fork Creek, which eventually runs into the Musselshell River. The dams are owned by the American Fork Ranch and The Glennie Ranches, Two Dot, Montana 59085. The stored water is used for irrigation. Technical data pertaining to Lebo Lake Northwest, Northeast, and East Dams and their structures are shown in Appendix A.

C. Access to Dam

The Lebo Lake Dams are located off of a county road, about eight miles south of Two Dot. Note that the county road may become flooded in the event of failure of the northwest or northeast dams, and the county road will wash out entirely in the event of failure of the east dam! If access from the north (Two Dot) is not possible, alternate access may be obtained by four-wheel drive from Melville (approx. 20 miles south). The nearest telephone is at the home of Jed Evjene, manager of American Fork Ranch, 632-4480.

D. Hazard Area

The evacuation area for failure of the ~~northwest and northeast~~ dams extends along Big Elk Creek to a point on the Musselshell River, just upstream of Ryegate. Hazards include the possible inundation of occupied dwellings along Big Elk Creek and the Musselshell River, the town of Two Dot, and Highways 12 and 191.

The evacuation area in the event of failure of the ~~east~~ dam extends along Lebo Creek, American Fork Creek, and the Musselshell River to a point just upstream of the town of Shawmut. Hazards include the possible inundation of occupied dwellings along Lebo and American Fork Creeks and the Musselshell River, and Highways 12 and 191.

Inundation and evacuation maps are found in Appendix B.

E. Responsibility and Authority

Pursuant to the Dam Safety Act, Chapter 15 of Title 85, MCA, the dam owner is responsible for production, coordination, maintenance, and implementation of this emergency action plan. The extent of owner implementation was defined through coordination of this plan with the county sheriff and the disaster and emergency services (DES) coordinator.

F. Periodic Review/Update

The owner shall review/update this EAP annually. Review/update by a qualified professional engineer will be accomplished as required by the dam's operating permit, but no less than every five years.

G. Approval

By my signature, I acknowledge that I, or my representative, have reviewed this plan and agree to the tasks and responsibilities assigned herein for my department and/or agency.

Signature

Date

WHEATLAND COUNTY SHERIFF'S DEPARTMENT

Signature

Date

DISASTER AND EMERGENCY SERVICES

Signature


Date

DAM OWNER OR DESIGNATED REPRESENTATIVE

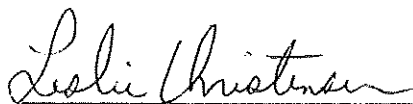
Original/copy signed 6-01

G. Approval

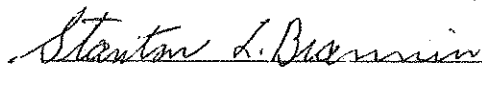
By my signature, I acknowledge that I, or my representative, have reviewed this plan and agree to the tasks and responsibilities assigned herein for my department and/or agency.

 1-6-97

Signature Date
Wheatland County Sheriff's Department

 010697

Signature Date
Disaster and Emergency Services

 Jan 6 - 1997

Signature Date
Dam Owner's Representative

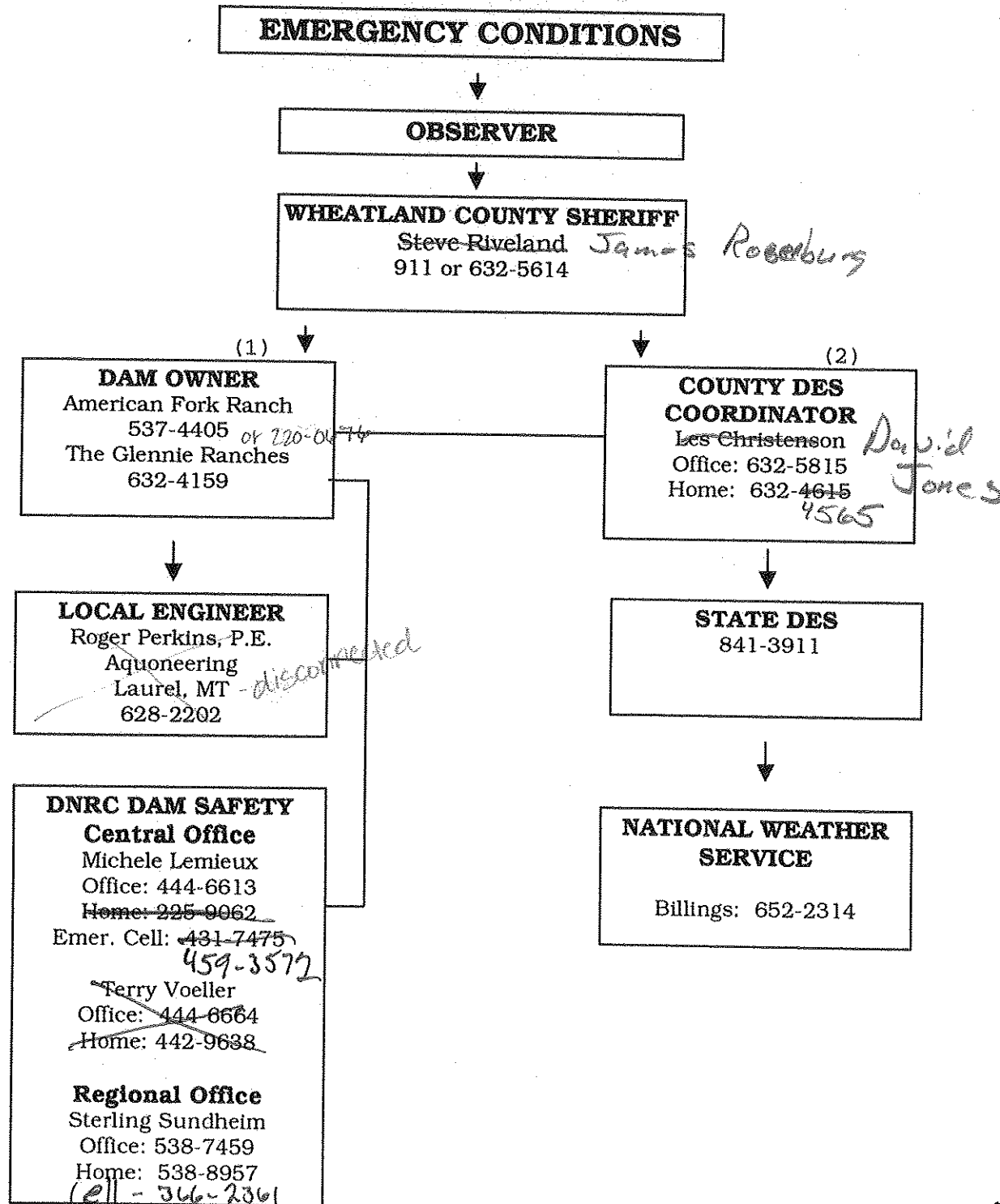
II. NOTIFICATION PROCEDURES

A. Imminent or Actual Failure

It is important that you accurately judge whether the dam is about to fail. If you aren't sure whether the dam is threatened, seek advice from a qualified engineer or call the Dam Safety Section (444-6664/6613) of the Department of Natural Resources and Conservation (DNRC). If Lebo Lake Northwest or Northeast Dam is failing, two things must be done immediately: (1) the hazard area downstream from the dam must be evacuated, and (2) any steps that might save the dam or reduce damage to the dam or hazard area downstream should be taken. (Refer to the map in Appendix B to determine the areas likely to be inundated if the dam fails). The evacuation will be handled according to the county warning plan, and should be initiated as shown in Figure 1.

FIGURE 1

Lebo Lake Northwest, Northeast and East Dams
ACTUAL OR IMMINENT FAILURE
"NOTIFICATION FLOWCHART"



As dam owner, it is your responsibility to:

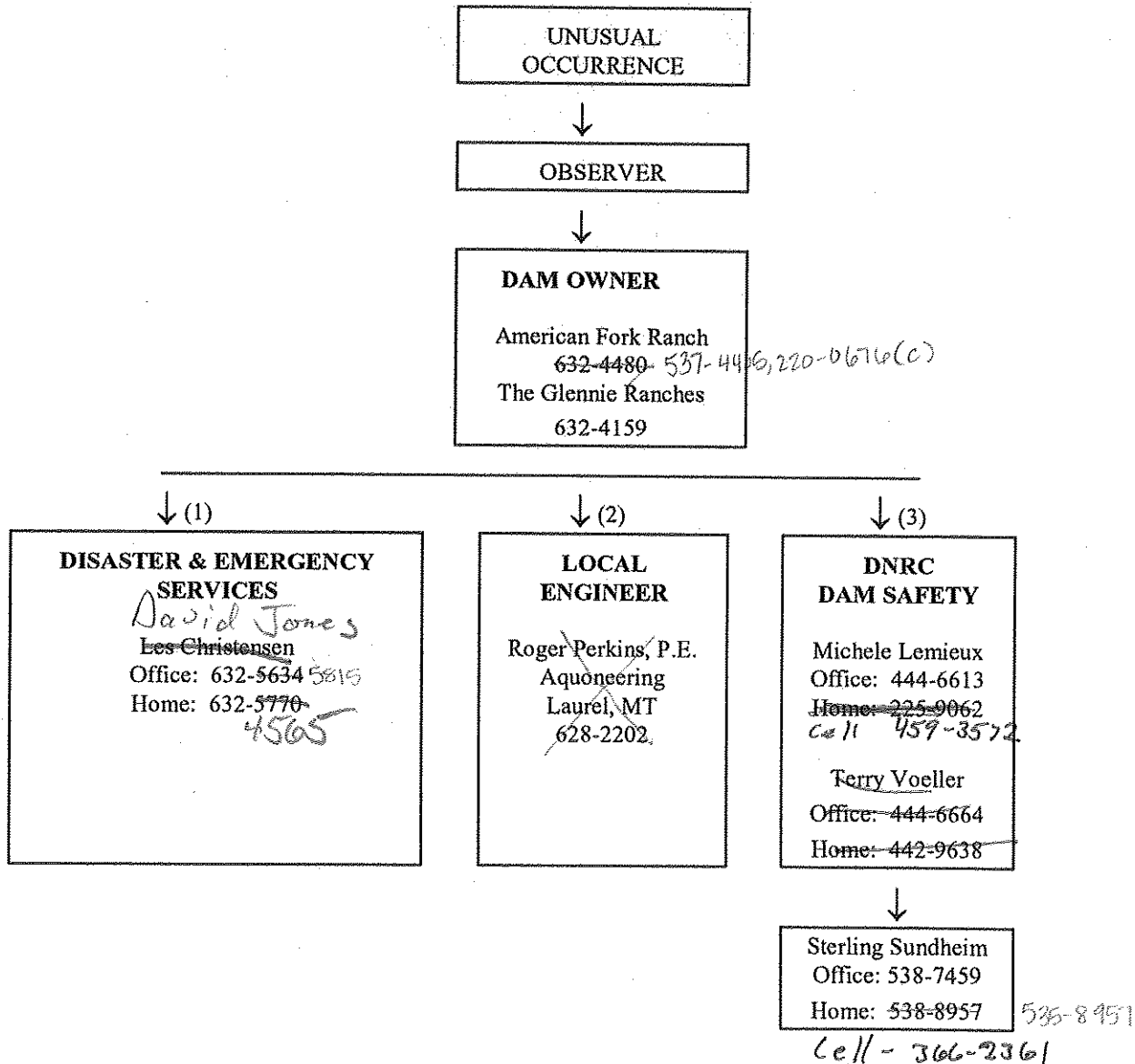
1. Call the Sheriff's Dispatch Center and Disaster and Emergency Services (911). Be sure to say, "This is an emergency." They will call other authorities and the media and begin the evacuation.
2. Do whatever is necessary to bring anyone in immediate danger to safety. This includes someone on the dam, directly below the dam, boating on the reservoir, or evacuees if so directed by the sheriff.
3. Keep in frequent touch with Disaster and Emergency Services staff. They will tell you how to handle the emergency.
4. If all means of communication are lost:
 - a. Try to find out why
 - b. Try to get to another radio or telephone that works
 - c. Get someone else to try to reestablish communications. If these means fail, handle the immediate problems as well as you can, and periodically try to reestablish contact with Disaster and Emergency Services.

B. Potentially Hazardous Situation

A potentially hazardous situation is an event or condition not normally encountered in the routine operation of the dam and reservoir. Among the unusual occurrences that may affect the dam are dam embankment problems, failure of the spillway or outlet works, heavy precipitation or rapid spring snow melt, landslides, earthquakes, erosion, theft, vandalism, acts of sabotage, and serious accidents. These occurrences may endanger the dam, the public, or the downstream valley and may necessitate a temporary or permanent revision of the dam's operating procedures. Help in these situations can be obtained by notifying those people shown in Figure 2.

FIGURE 2

**Lebo Lake Northwest, Northeast and East Dams
POTENTIALLY HAZARDOUS SITUATION
"NOTIFICATION FLOWCHART"**



1. If the dam owner discovers an unusual condition of the dam embankment that could threaten the structure:
 - a. Have a qualified engineer inspect the dam as soon as possible to determine whether emergency action is necessary.

- b. Notify the county Disaster and Emergency Services Coordinator (632-5815/4615) of the potential problem.
 - c. Contact the local engineer (628-2202) and the Dam Safety Section (444-6613/6664) of the Department of Natural Resources and Conservation (DNRC).
2. Among the conditions the dam owner should watch for are:
- a. Overtopping of the dam by flood waters
 - b. Loss of material from the dam crest due to storm wave erosion
 - c. Slides on either the upstream or downstream slope of the embankment as evidenced by:
 - (1). Sloughing
 - (2). Cracking
 - (3). Bulging
 - (4). Scarping
 - d. Erosional flows through, beneath, or around the embankment as evidenced by:
 - (1). Excessive seepage
 - (2). Discoloration of the seepage
 - (3). Boils on the downstream side
 - (4). Sinkholes
 - (5). Changes in the flow from drains
 - e. Failure of outlets or spillways due to clogging or erosion
 - f. Movement of the dam on its foundation as evidenced by:
 - (1). Misalignment
 - (2). Settlement
 - (3). Cracking

3. When the dam owner calls either an engineer or DNRC to report a problem, use the form in Appendix D to ensure you can provide sufficient information for the engineer to analyze the problems. In addition, prepare a sketch showing the extent of the problem. Revise the sketch periodically if the problem develops further.

Section III includes further guidelines for courses of action to take to mitigate the effect of many problems.

C. Posting of the Notification Flowchart and Distribution of the EAP

The Notification Flowchart is posted at the dam and a copy of the EAP is in the gatehouse. This plan has been distributed as shown below:

<u>Location</u>	<u>Number of Copies</u>
Wheatland County Sheriff's Office	1
Wheatland County Disaster and Emergency Services	1
Jed Evjene, American Fork Ranch	2
Jane L. Glennie, The Glennie Ranches	2
Roger Perkins, P.E., Aquoneering, Laurel, MT	1
DNRC Dam Safety, Helena, MT	1
Moore, O'Connell & Refling, P.C., Bozeman, MT	2

III. MITIGATION ACTIONS

Besides normal monitoring of the dam's condition, which is done at least monthly, the owner will provide continuous monitoring and inspection during and after extreme events such as storms and earthquakes.

Information on the magnitude of an earthquake or storm can be obtained from the DNRC Dam Safety Section (444-6613/6664). Actions are suggested below to mitigate problems that may develop, but those actions should never be continued at the risk of injury or at the expense of lessening efforts related to evacuation. Monitoring should identify any of the following potential problems.

A. Potential Problems and Immediate Response Actions

1. OVERTOPPING BY FLOOD WATERS

- a. Open outlet to its maximum safe capacity.
- b. Place sandbags along the crest to increase freeboard and force more water through the spillway and outlet.
- c. Provide erosion-resistant protection to the downstream slope by placing plastic sheets or other materials over eroding areas.
- d. Divert flood waters around the reservoir basin, if possible.
- e. Create additional spillway capacity by making a controlled breach in a low embankment or dike section where the foundation materials are erosion-resistant.

2. LOSS OF FREEBOARD OR DAM CROSS SECTION DUE TO STORM WAVE EROSION

- a. Place additional riprap or sandbags in damaged areas to prevent further embankment erosion.
- b. Lower the water level to an elevation below the damaged area.

3. SLIDES IN THE UPSTREAM OR DOWNSTREAM SLOPE OF THE EMBANKMENT

- a. Lower the water level at a rate and to an elevation considered safe, given the slope condition. If the outlet is damaged or blocked, pumping, siphoning, or a controlled breach may be required.
- b. Stabilize slides on the downstream slope by:
 - (1). weighting the toe area with additional soil, rock, or gravel, and then
 - (2). restoring lost freeboard by placing sandbags at the crest.

4. EROSIONAL FLOWS THROUGH THE EMBANKMENT, FOUNDATION, OR ABUTMENTS

- a. Plug the flow with whatever material is available (hay bales, bentonite, or plastic sheeting if the entrance to the leak is in the reservoir basin).

- b. Lower the water level until the flow decreases to a non-erosive velocity or stops.
 - c. Place a protective sand-and-gravel filter or boil ring over the exit area to hold materials in place.
- 5. FAILURE OF APPURTENANT STRUCTURES SUCH AS OUTLETS OR SPILLWAYS
 - a. Implement temporary measures to protect the damaged structure, such as closing an outlet or protecting a damaged spillway with riprap.
 - b. Lower the water level to a safe elevation. If the outlet is inoperable, pumping, siphoning, or a controlled breach may be required.
- 6. MASS MOVEMENT OF THE DAM ON ITS FOUNDATION (SPREADING OR MASS SLIDING FAILURE)
 - a. Immediately lower the water level until excessive movement stops.
- 7. EXCESSIVE SEEPAGE AND HIGH LEVEL SATURATION OF THE EMBANKMENT
 - a. Lower the water to a safe level.
 - b. Continue frequent monitoring for signs of slides, cracking or concentrated seepage.
- 8. SPILLWAY BACKCUTTING, THREATENING RESERVOIR EVACUATION
 - a. Reduce the flow over the spillway by fully opening the main outlet.
 - b. Provide temporary protection at the point of erosion by placing sandbags, riprap materials, or plastic sheets weighted with sandbags.
 - c. When the inflow subsides, lower the water to a safe level.
- 9. EXCESSIVE SETTLEMENT OF THE EMBANKMENT
 - a. Lower the water level by releasing it through the outlet pumping, siphoning, or a controlled breach.
 - b. If necessary, restore freeboard, preferably by placing sandbags.

B. Emergency Supplies and Resources

An exposed bedrock outcrop located to the west of county road (between East and Northeast Dams) is a good source for coarse-grained materials and rocks. The area was used as a borrow area for past construction activities.

C. Local Contractors and Engineers

Local Contractors:

Diamond Construction Co.
PO Box 5987
2905 North Montana, Suite 2000
Helena MT 59601
Telephone: 443-3373
Fax: 442-2450

Engineer:

Roger Perkins, P.E.
Aquoneering
1555 Sage Circle
Laurel MT 59044
Telephone: 628-2202

APPENDICES

APPENDIX A Technical Data for Lebo Lake Northwest, Northeast and East Dams

APPENDIX A

Technical Data For Lebo Lake Northwest, Northeast and East Dams

Maximum Reservoir Capacity to the Crest of the Northeast Dam: 4735 acre feet

Normal Reservoir Capacity Measured to the Principal Spillway

Crest of the East Dam: 3105 acre feet

Normal Water Depth Measured from the Streambed
to the Crest of the Emergency Spillway:

Northwest Dam 4.5 feet

Northeast Dam 11.9 feet

East Dam 22.6 feet

Dam Height Measured From the Streambed to the Crest:

Northwest Dam 8 feet

Northeast Dam 15 feet

East Dam 27 feet

Dam Crest Width:

Northwest Dam 11 feet

Northeast Dam 14 feet

East Dam 25 feet

Length of Dam Crest:

Northwest Dam 500 feet

Northeast Dam 800 feet

East Dam 388 feet

Outlet Capacity (Northeast Dam): 40 cubic feet per second

Principal Spillway Capacity (East Dam): 110 cubic feet per second

Emergency Spillway Capacity: 170 cubic feet per second

Date Constructed:

Northwest and Northeast Dams 1969

East Dam 1973

Slope of Upstream Face of Dam (Horizontal to Vertical):

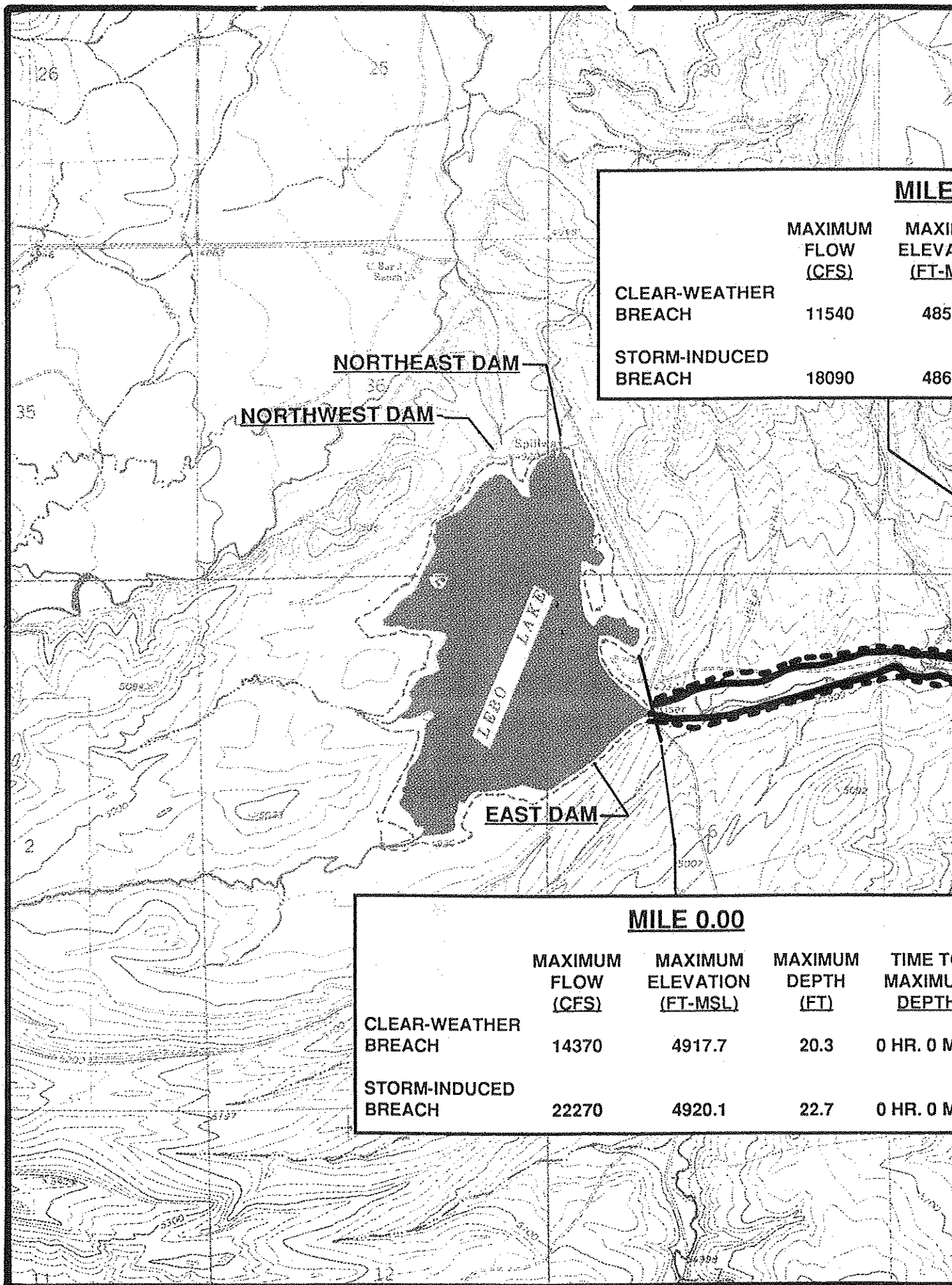
Northwest and Northeast Dams 3.3:1

East Dam 4:1

Slope of Downstream Face of Dam (Horizontal to Vertical):

Northwest Dam 2.2:1
Northeast Dam..... 2:1
East Dam2.8:1 and 2:1

APPENDIX B Inundation and Evacuation Maps



LEBO EAST DAM BREACH FLOOD MAP

N



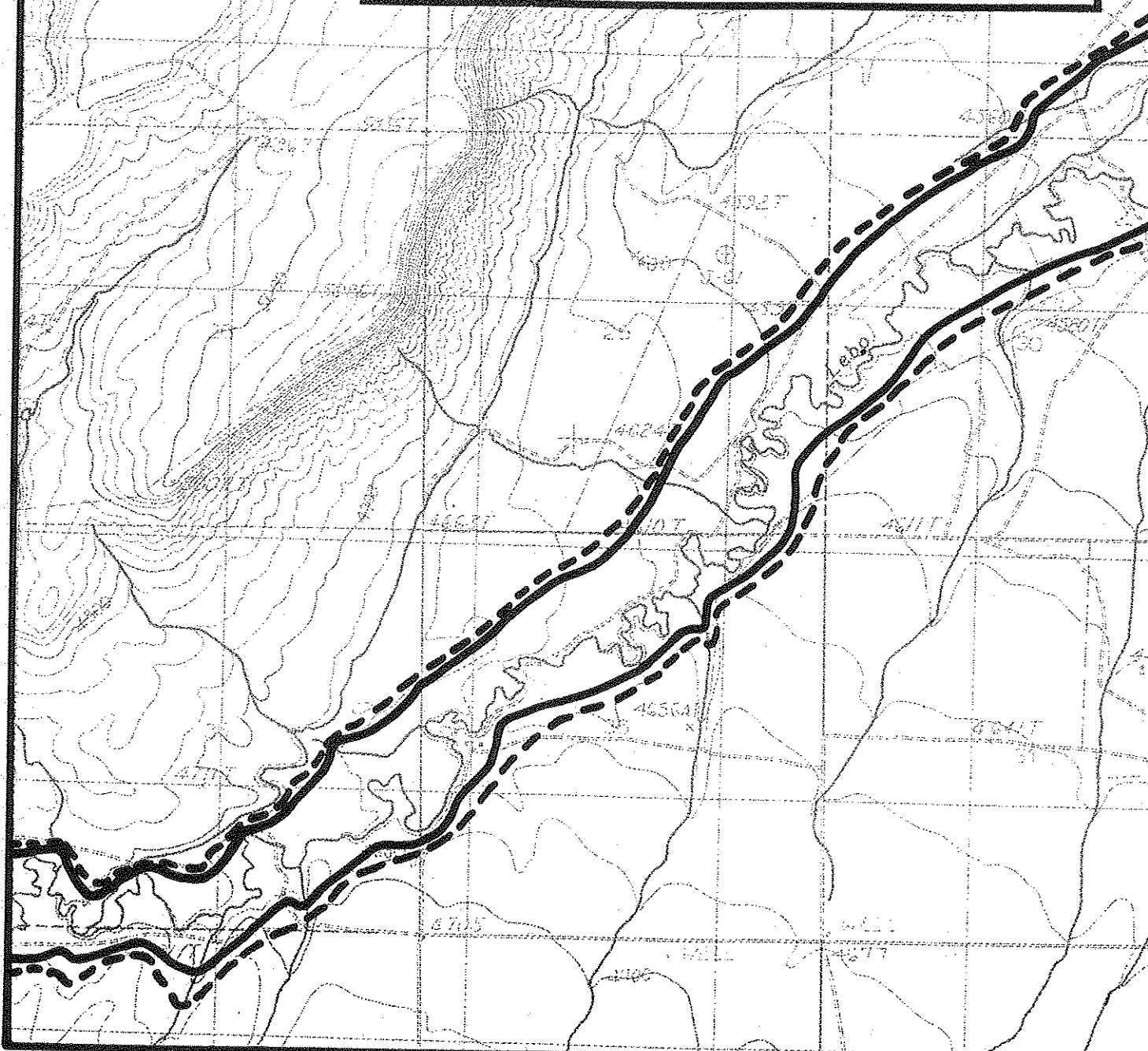
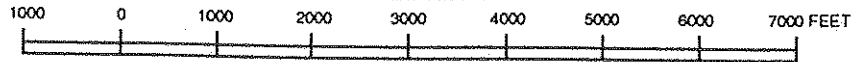
3.13 Distance In Miles Downstream Of The Dam

————— Clear-Weather Breach Flood Boundary

- - - - - Storm-Induced Breach Flood Boundary

Users should understand that the inundation maps are only intended to be a guide and that the area subject to inundation during an actual failure may be different depending upon mode of failure and reservoir inflow conditions.

SCALE 1:24000



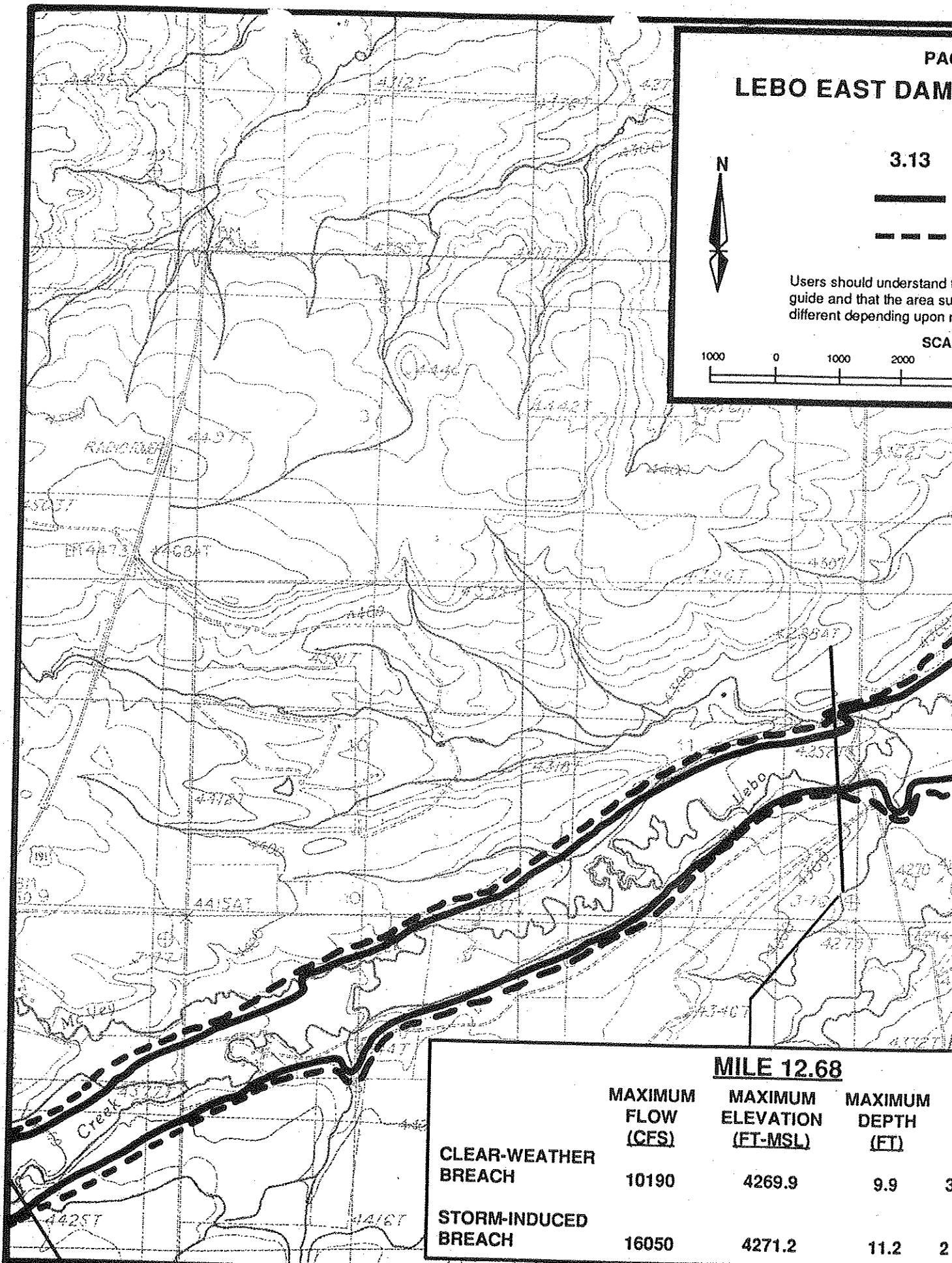
LEBO EAST DAM

3.13



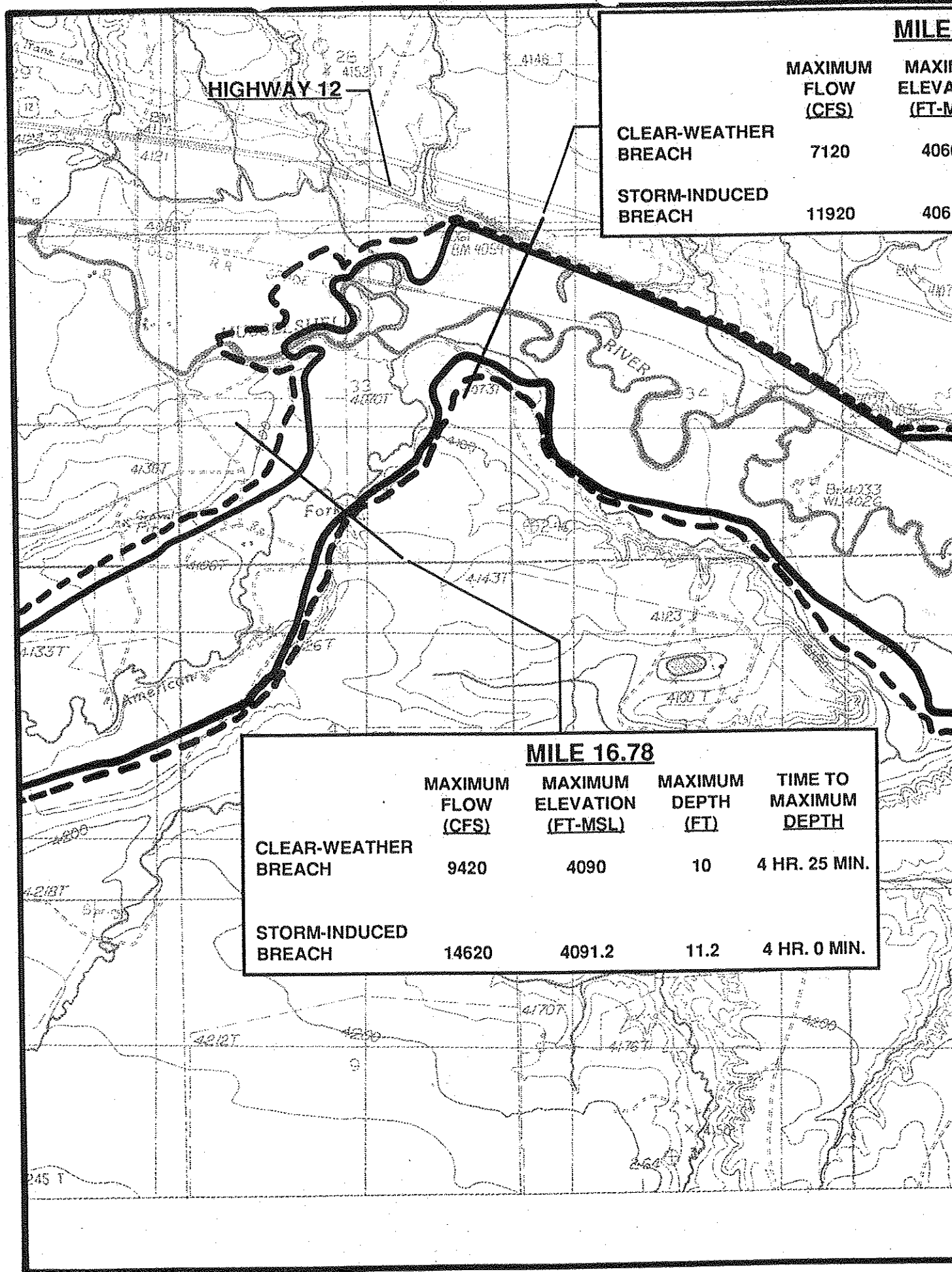
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different depending upon r

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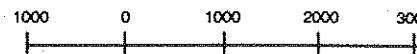
	MAXIMUM FLOW (CFS)	MAXIMUM ELEVATION (FT-MSL)	MAXIMUM DEPTH (FT)	
CLEAR-WEATHER BREACH	10190	4269.9	9.9	3
STORM-INDUCED BREACH	16050	4271.2	11.2	2



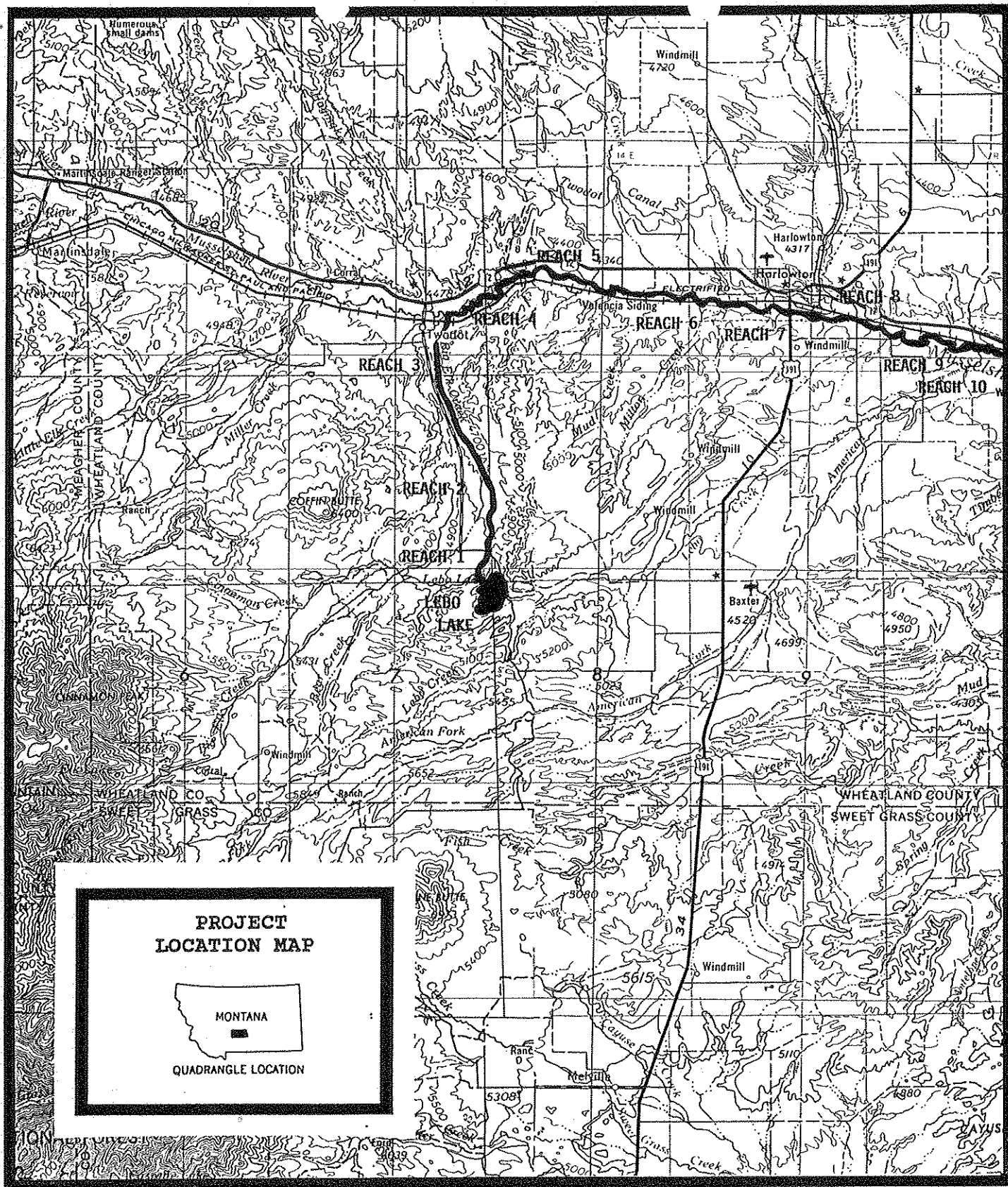


Users should understand the guide and that the area subject is different depending upon mo-

SCALE



AT THIS POINT THE ST
FLOW FALLS BELOW T
THE MUSSELSHELL RIV



MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653) - REACH LOCATION MAP 1

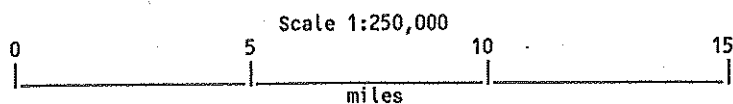
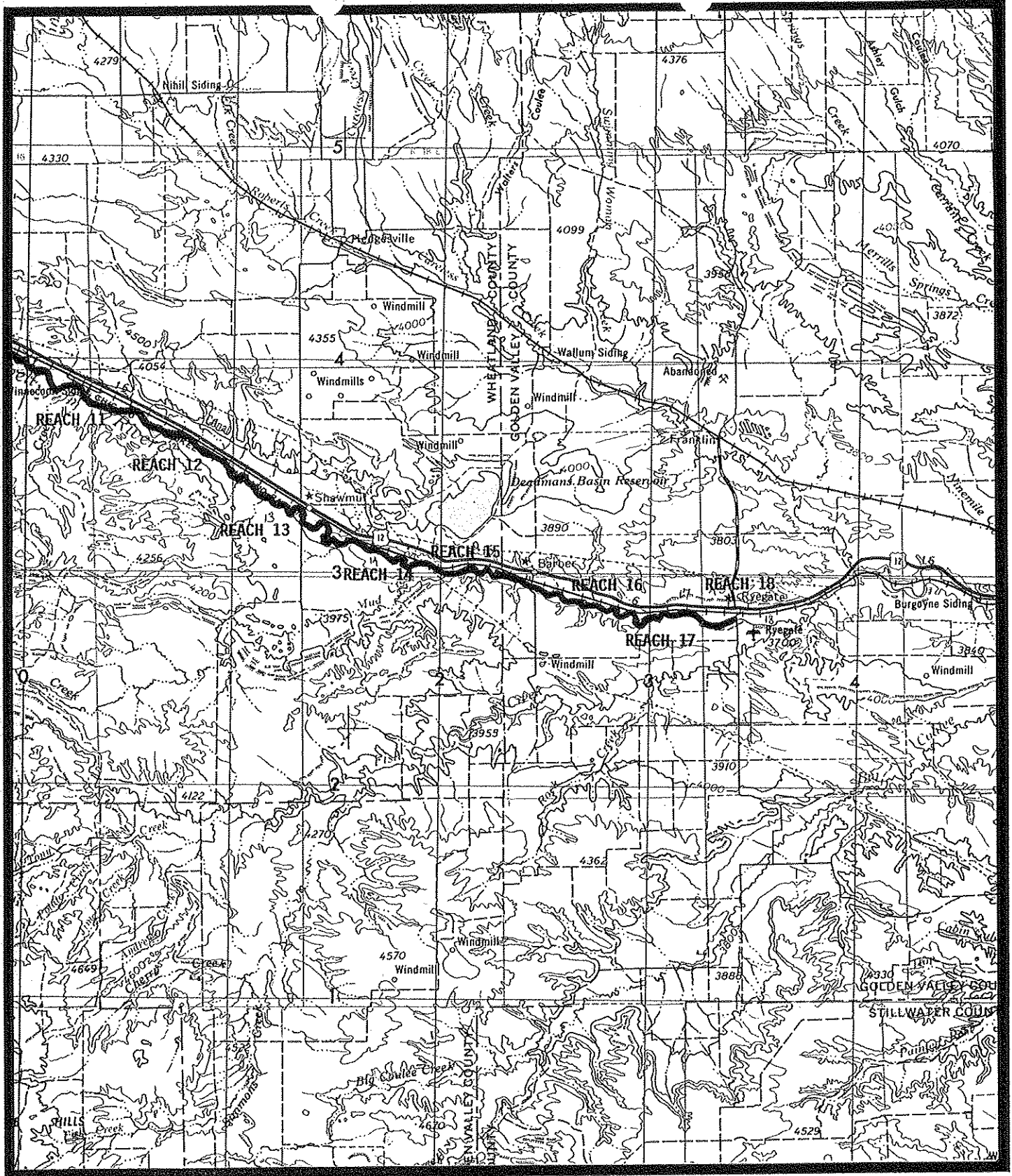


FIGURE 1



MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653) - REACH LOCATION MAP 2

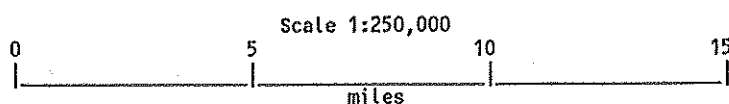
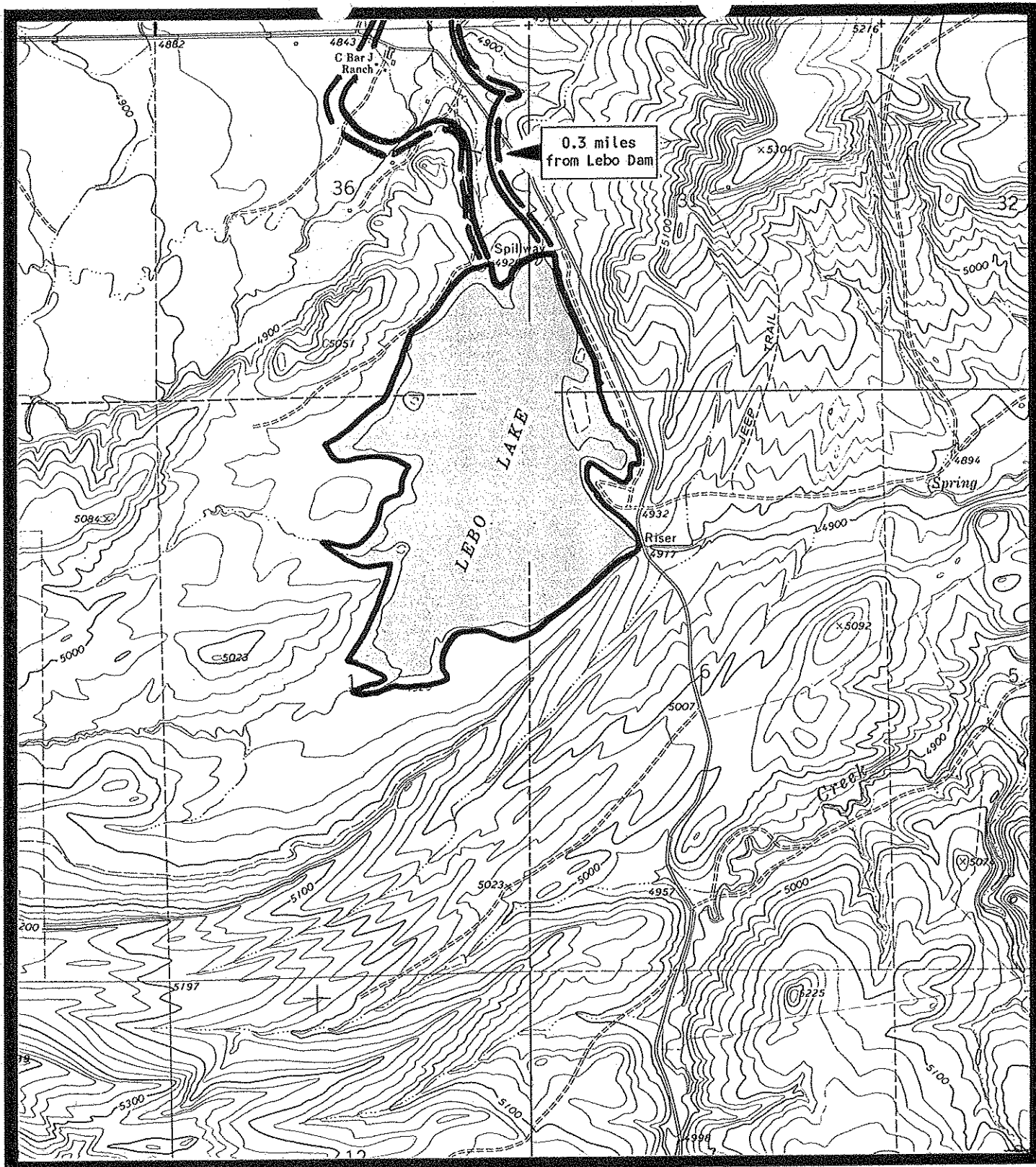


FIGURE 2



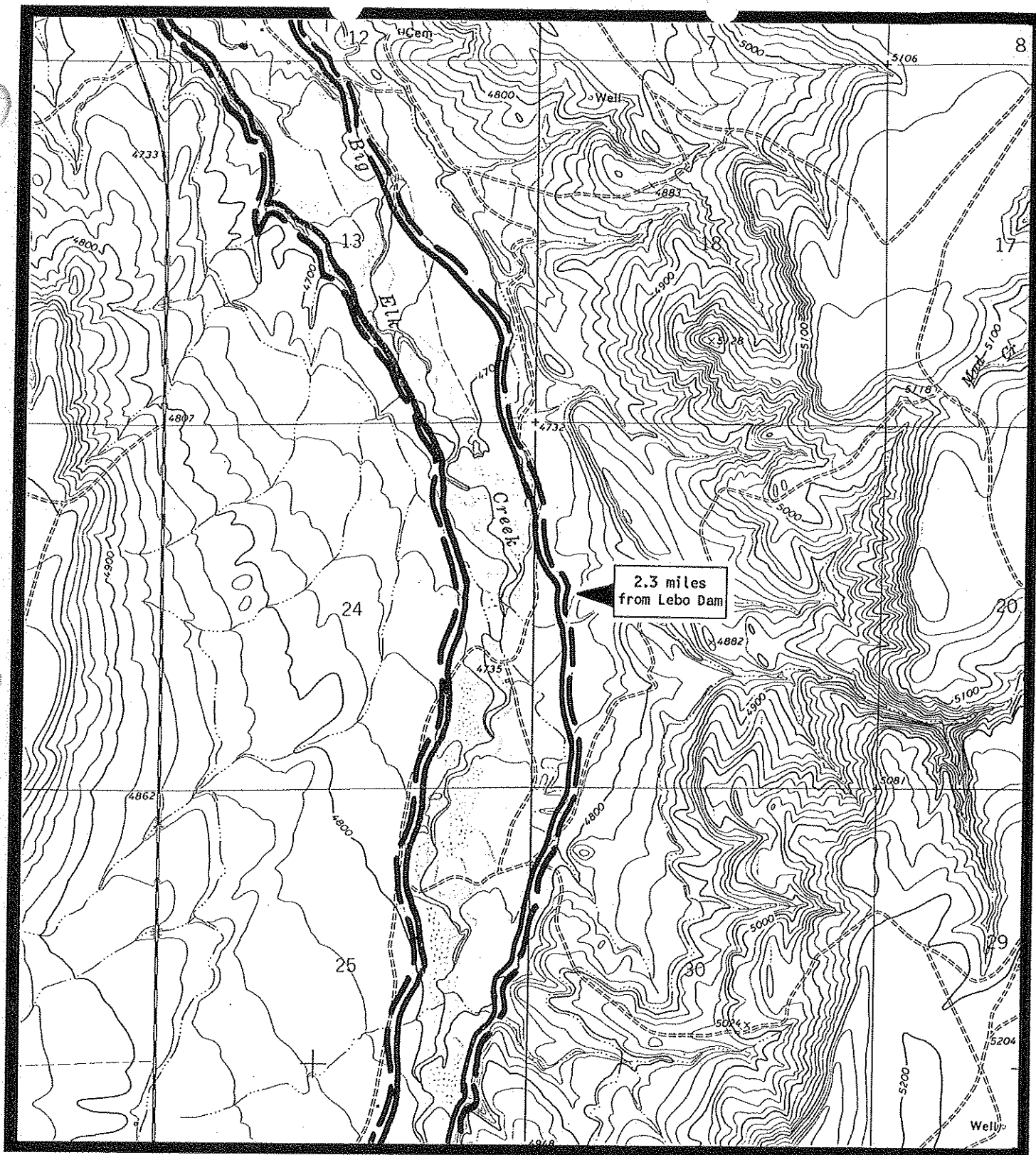
MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 1



SCALE 1:24,000
0 .5 1
miles

FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 3



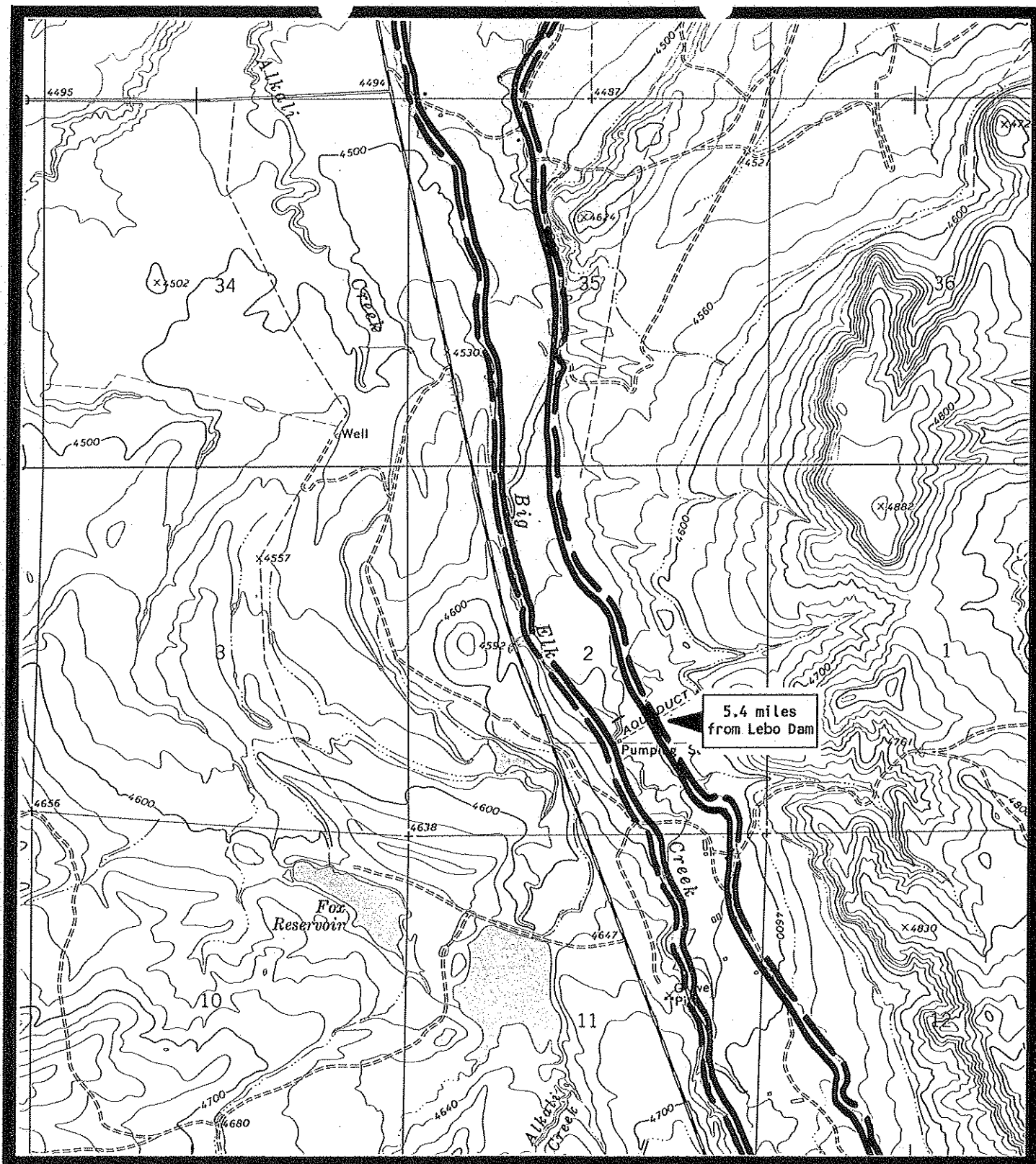
MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 2



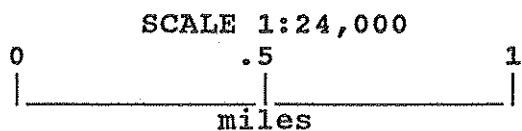
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0 .5 1
miles

FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 4

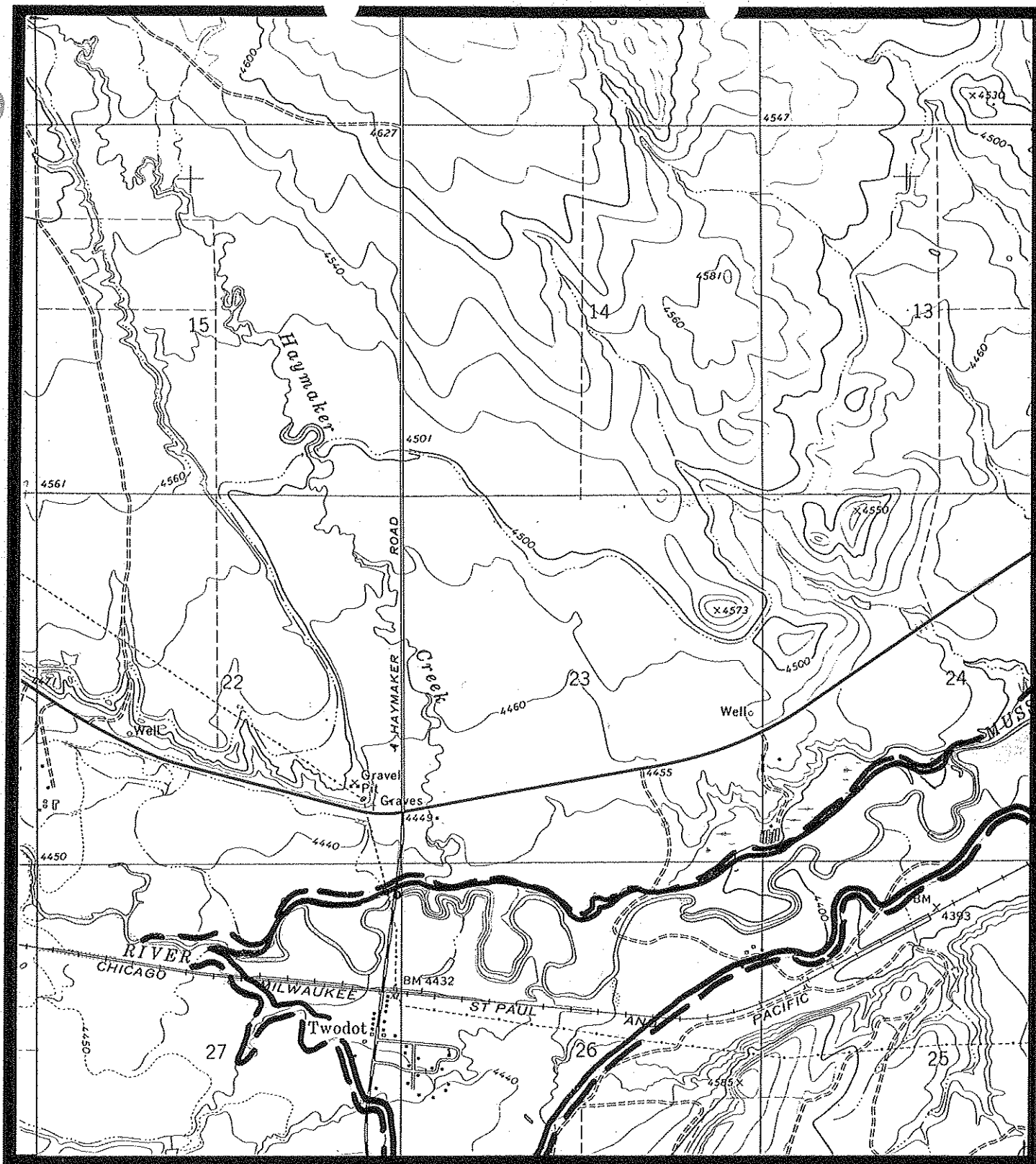


MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 3



FLOOD BOUNDARIES
CLEAR WEATHER BREACH —————
PMF WITH BREACH - - - - -

FIGURE 5

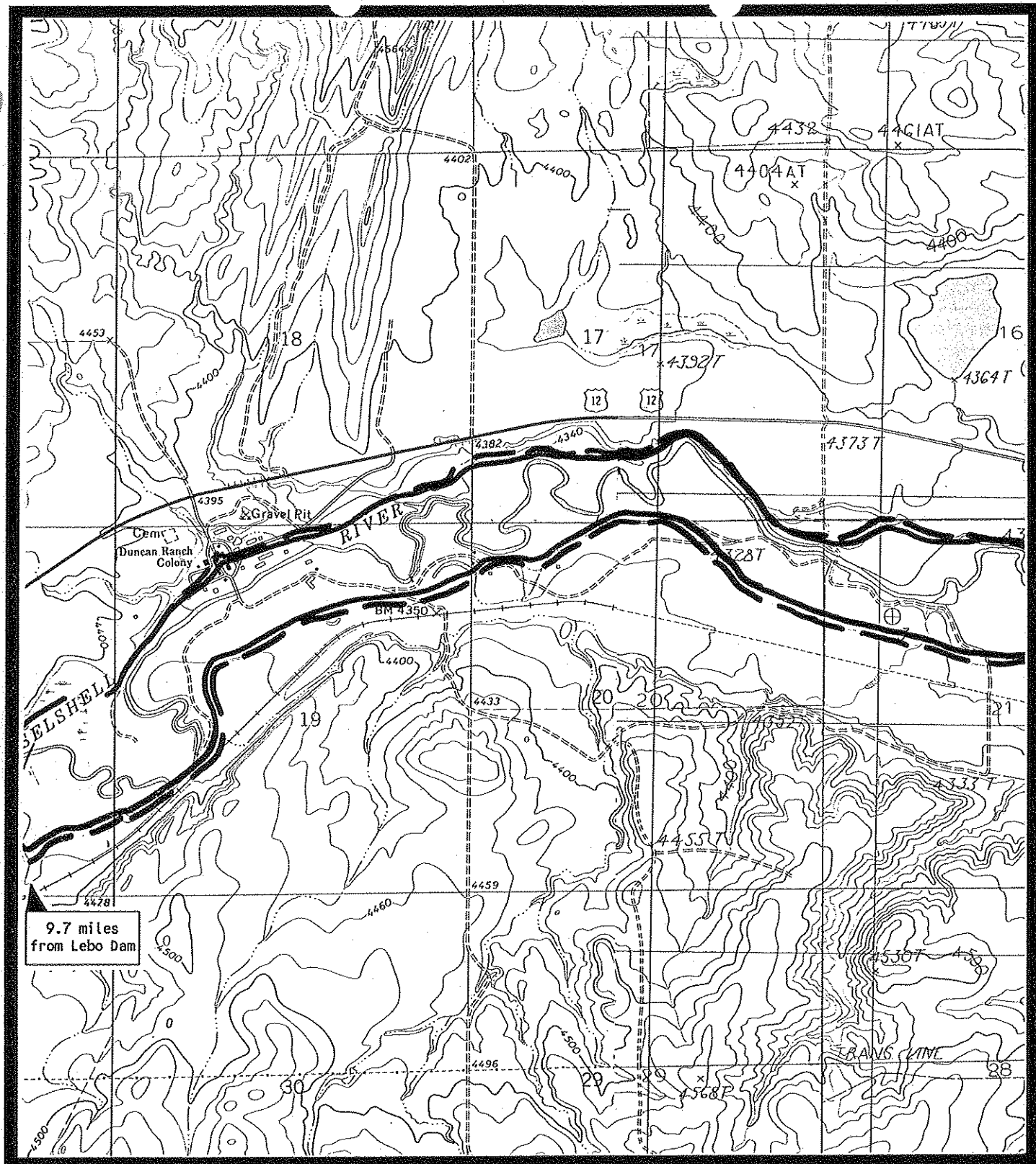


MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 4

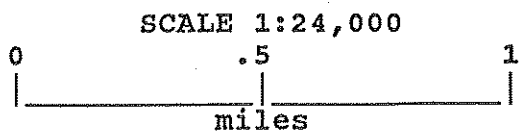
SCALE 1:24,000
0 .5 1
miles

FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - - -

FIGURE 6

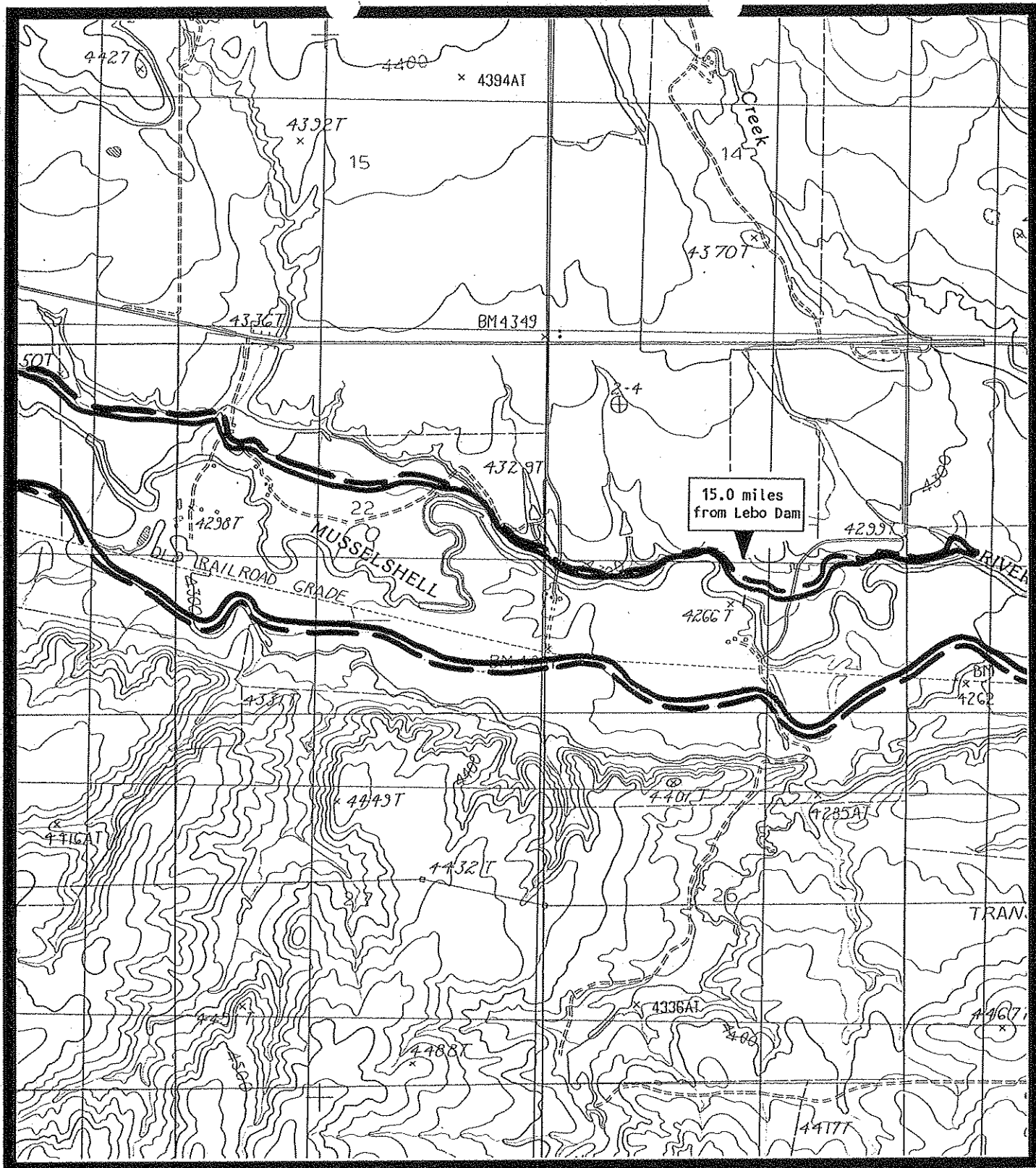


MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 5

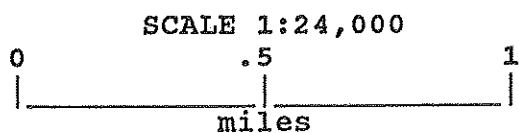


FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 7

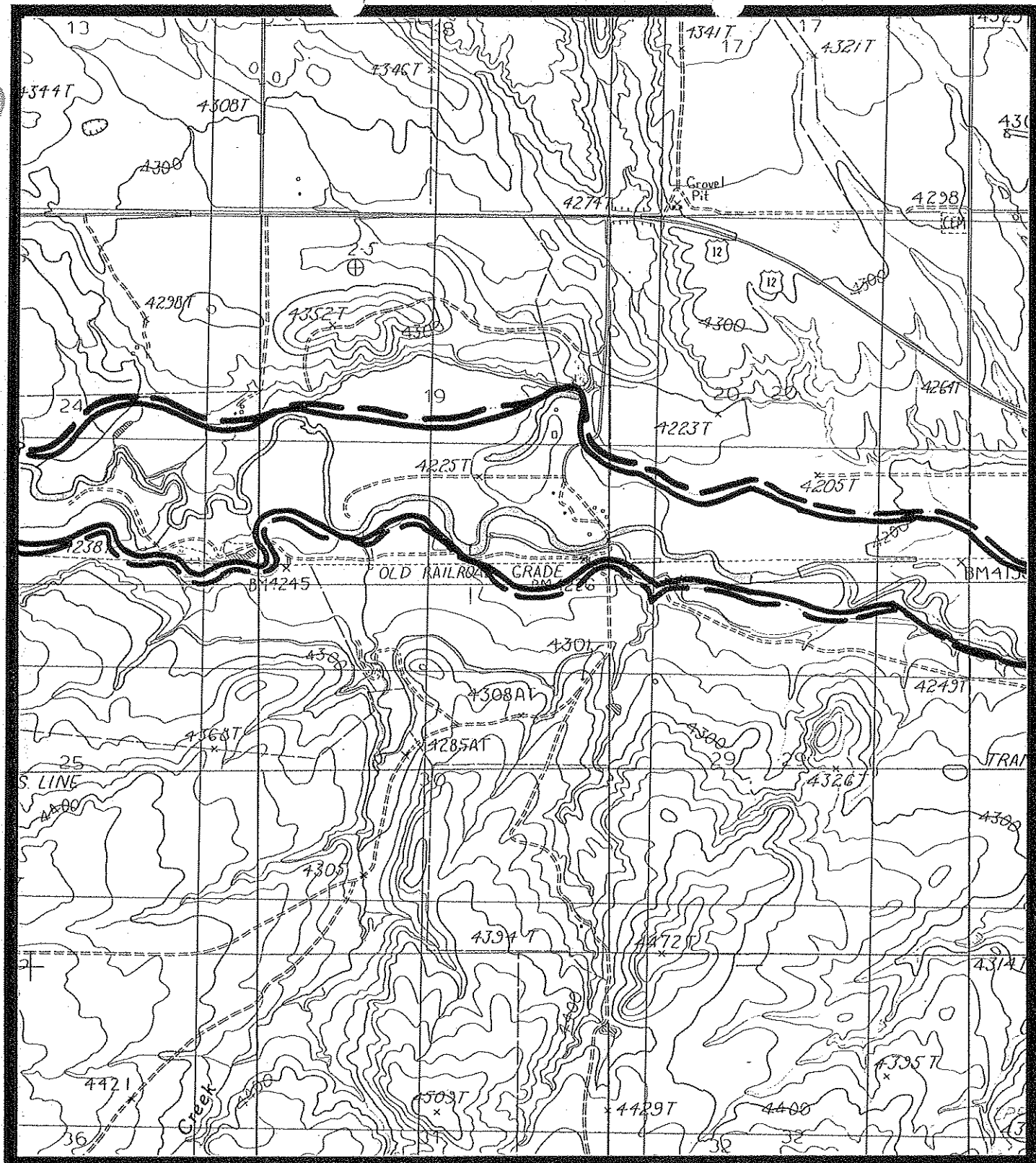


MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 6



FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 8



MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 7

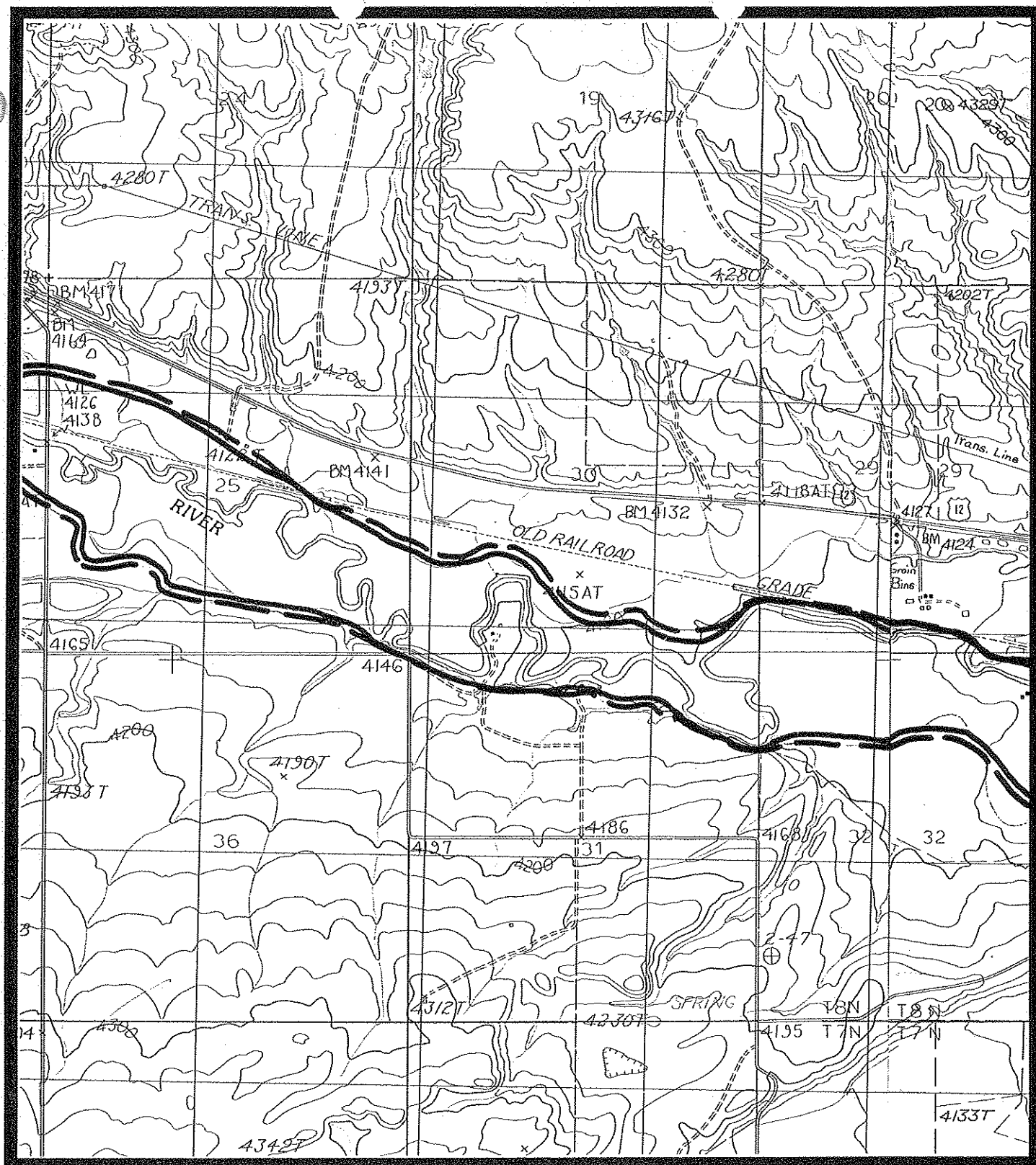


SCALE 1:24,000
0 .5 1
miles

FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 9





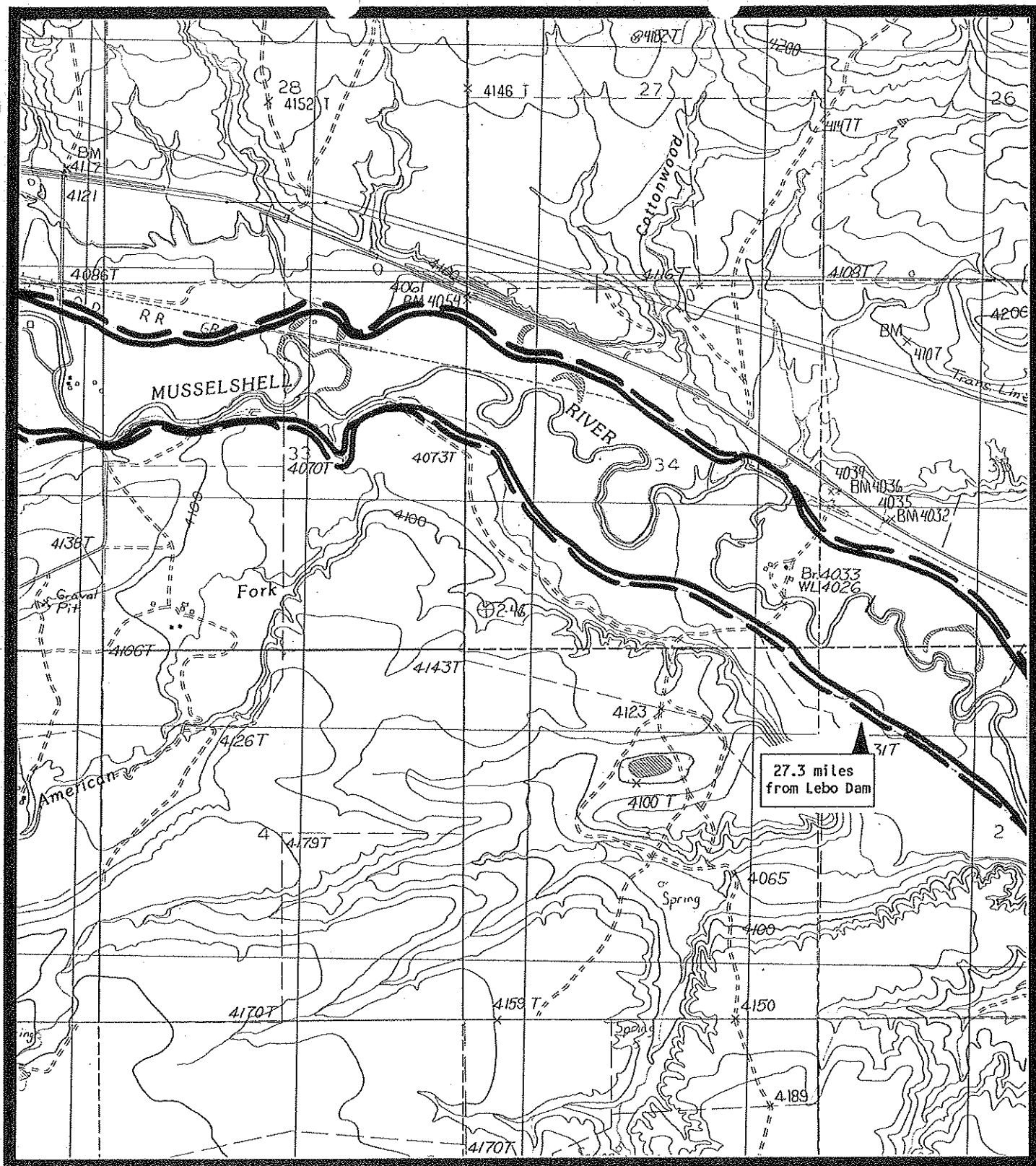
MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 9



SCALE 1:24,000
0 .5 1
miles

FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 11



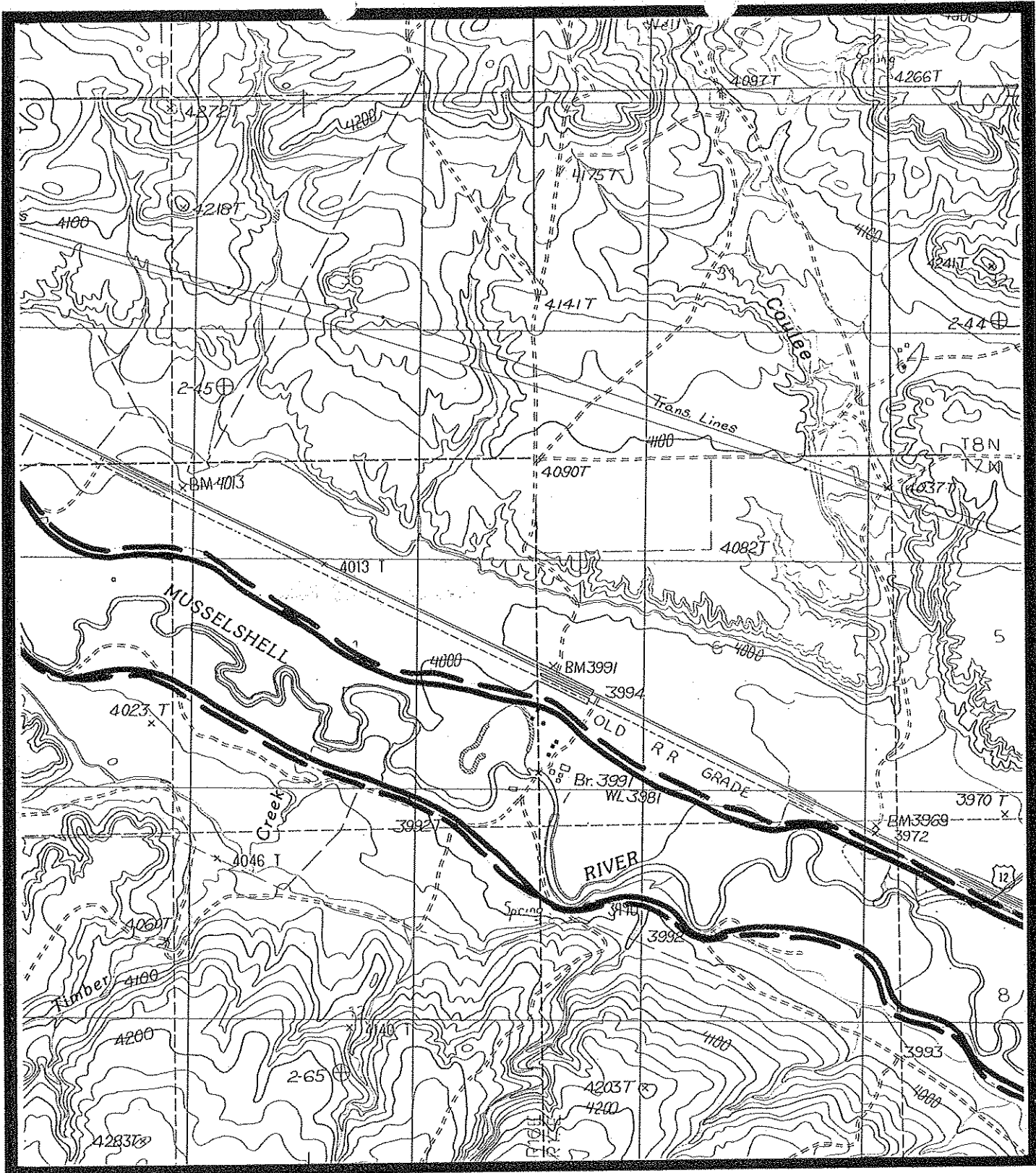
MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 10



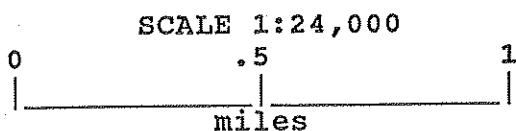
SCALE 1:24,000
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miles

FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 12

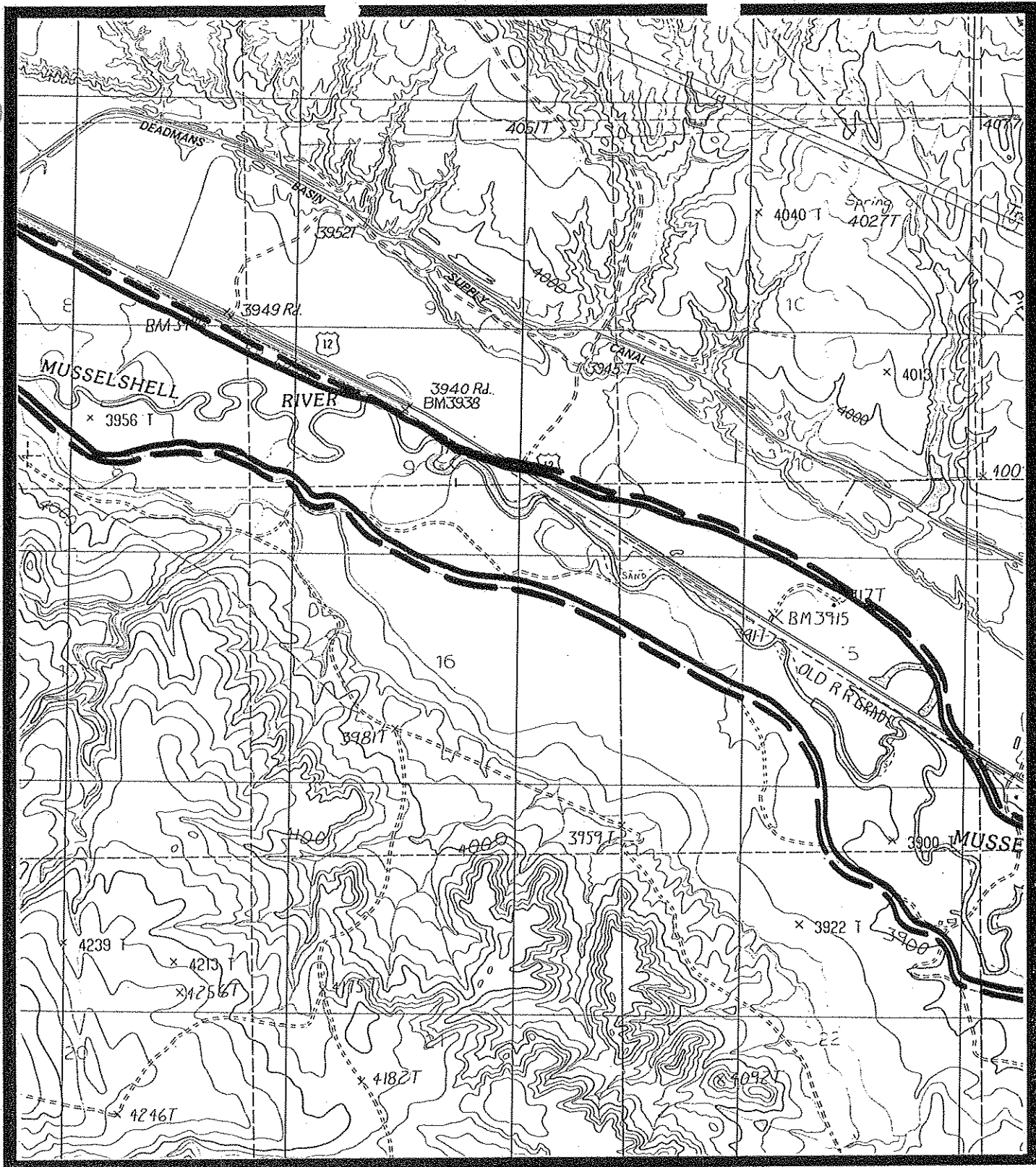


MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 11

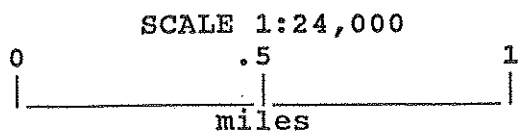


FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - - -

FIGURE 13

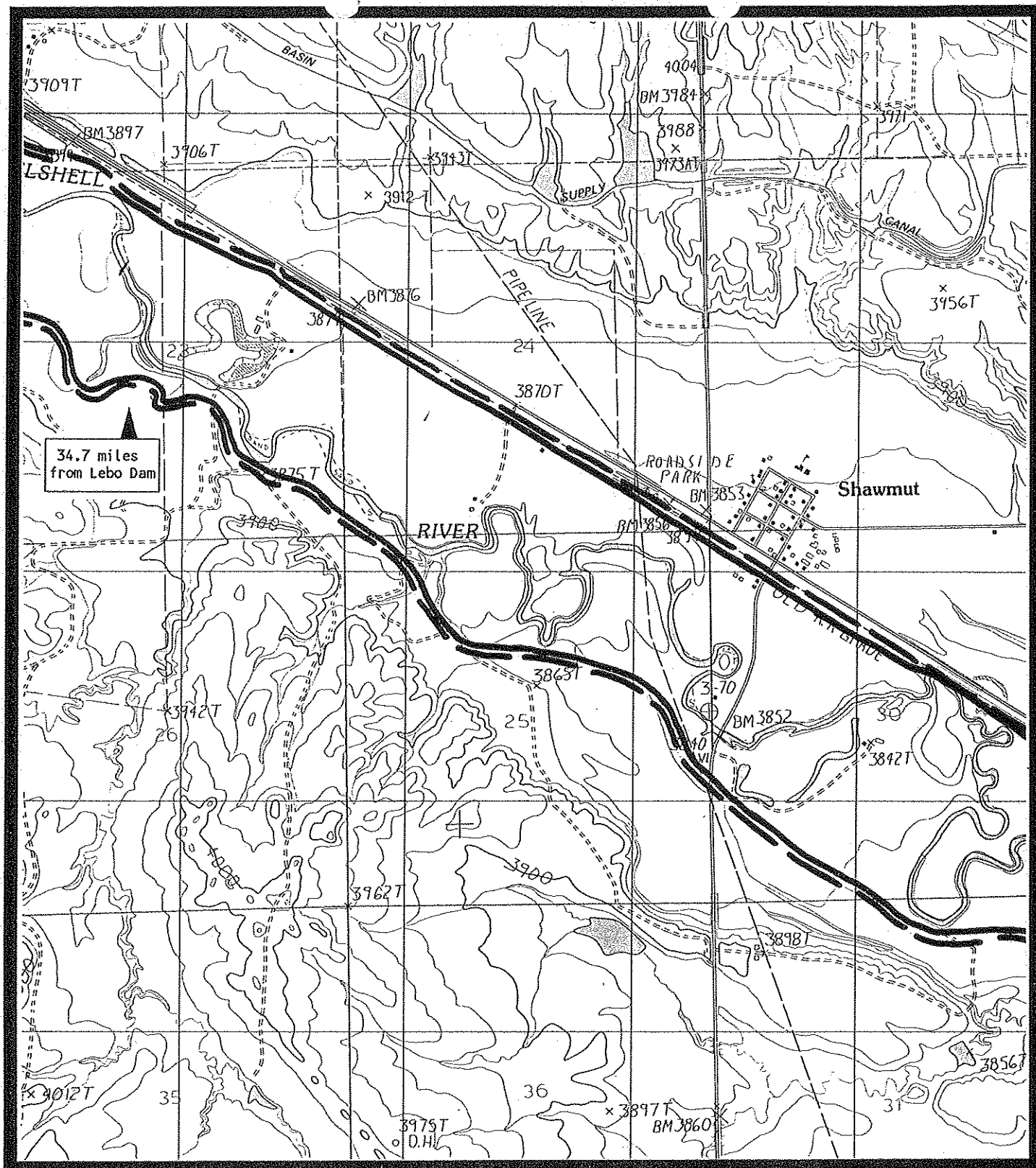


MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 12

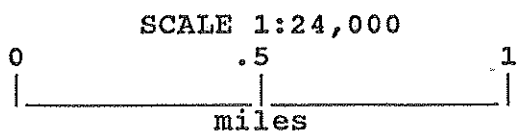


FLOOD BOUNDARIES
CLEAR WEATHER BREACH —————
PMF WITH BREACH - - - - -

FIGURE 14

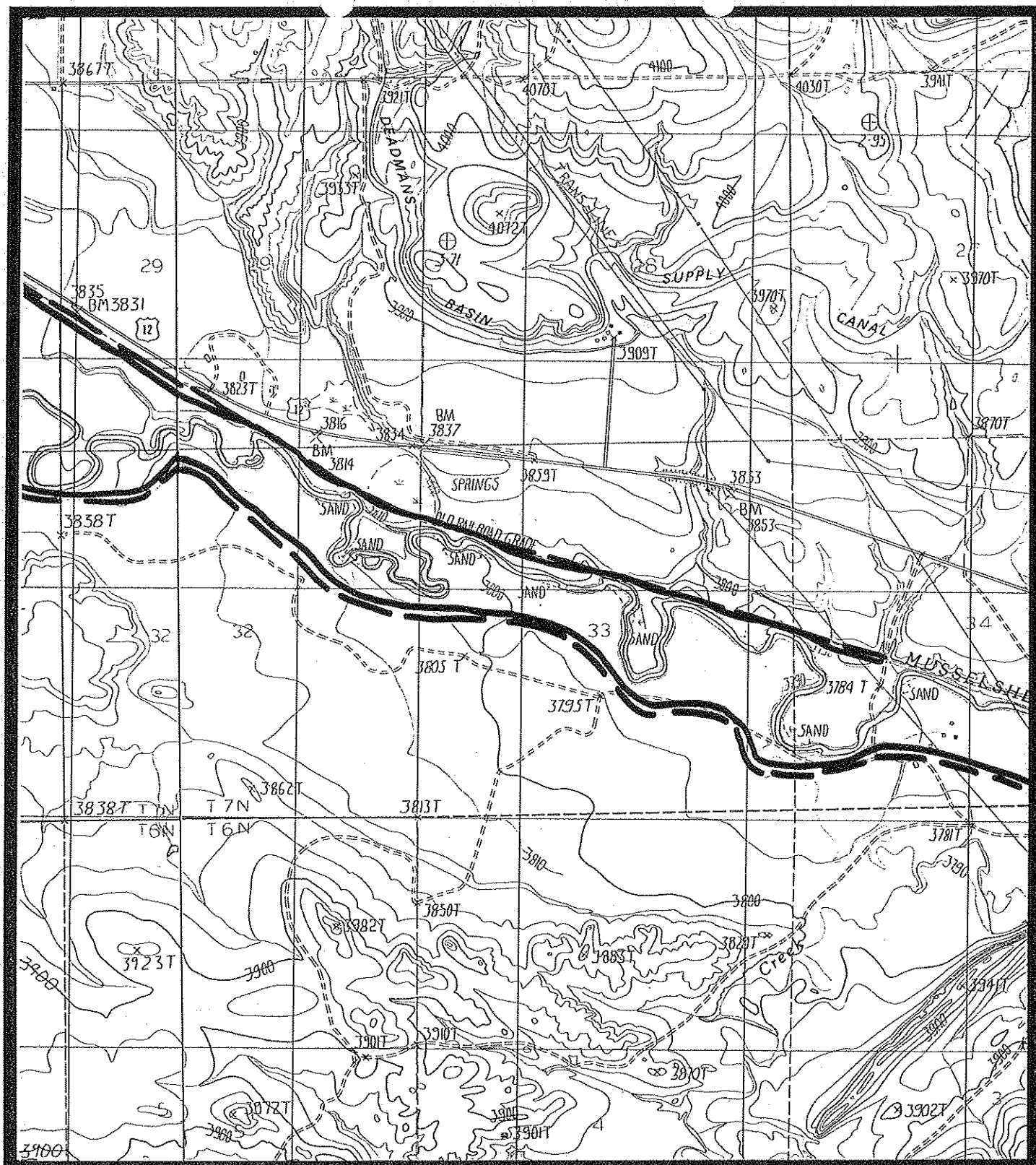


MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 13

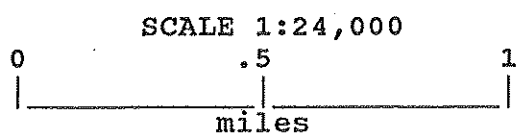


FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 15

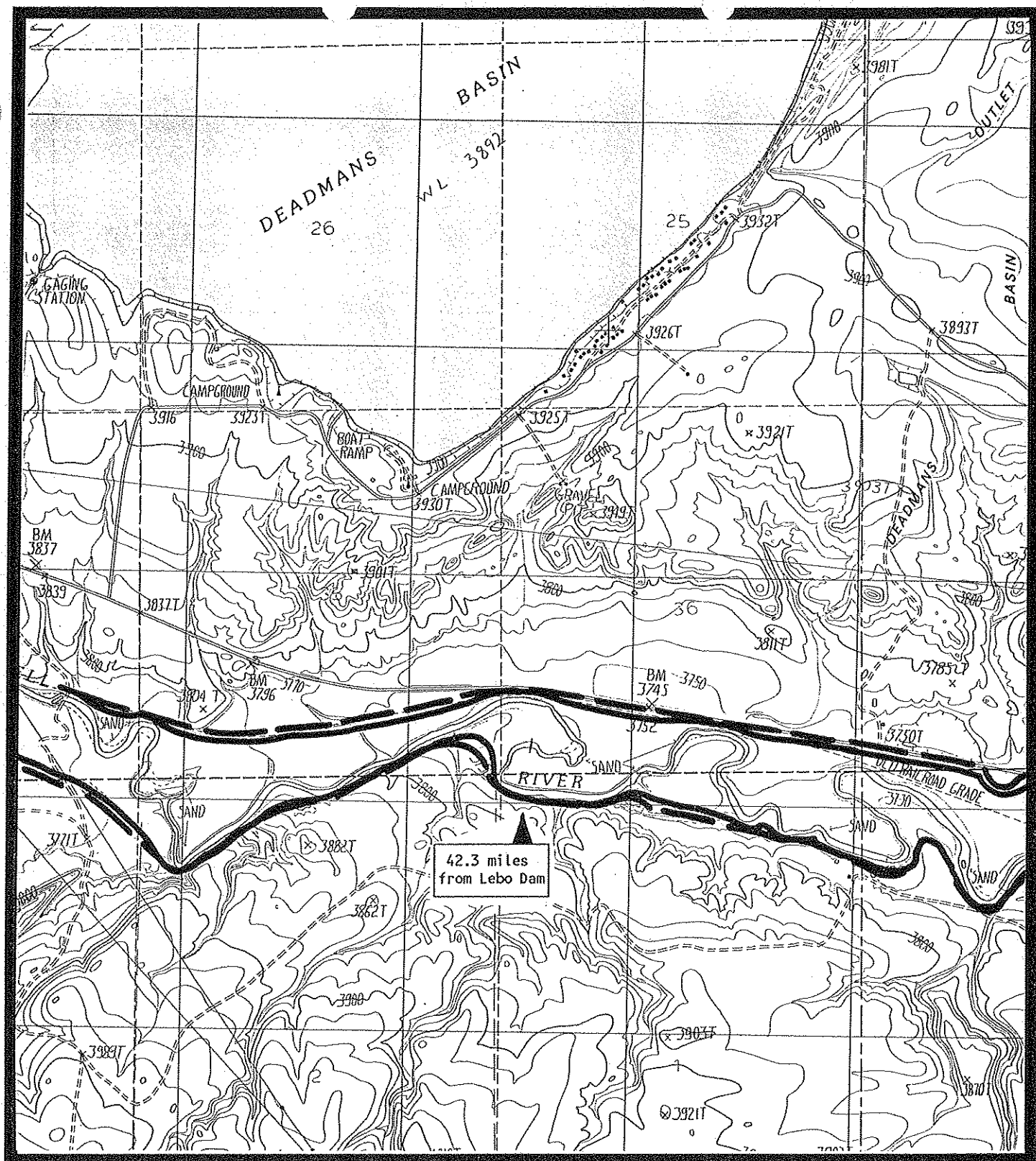


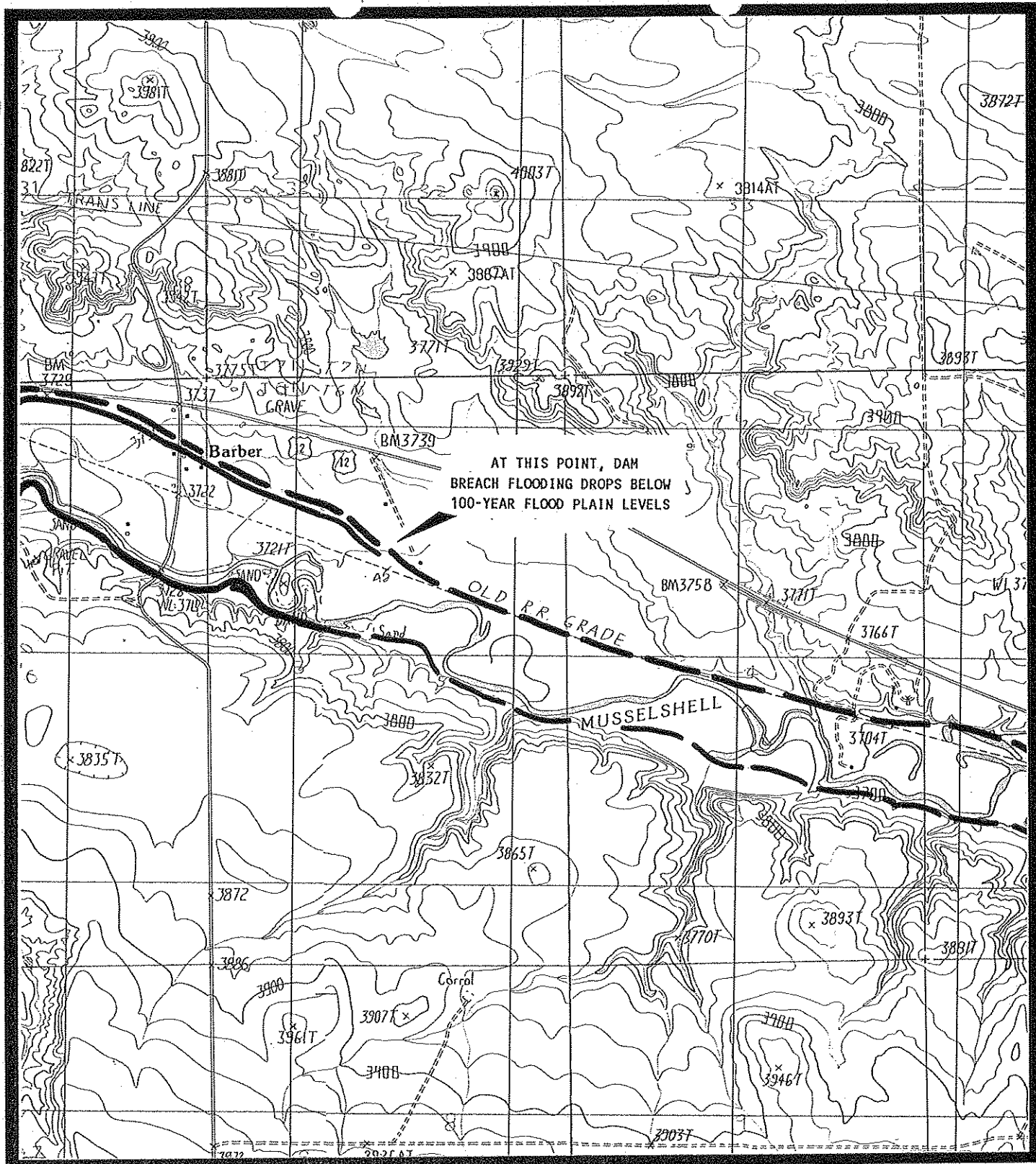
MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 14



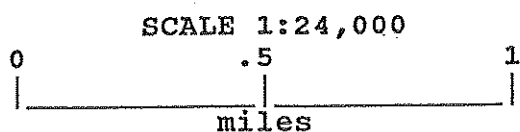
FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 16



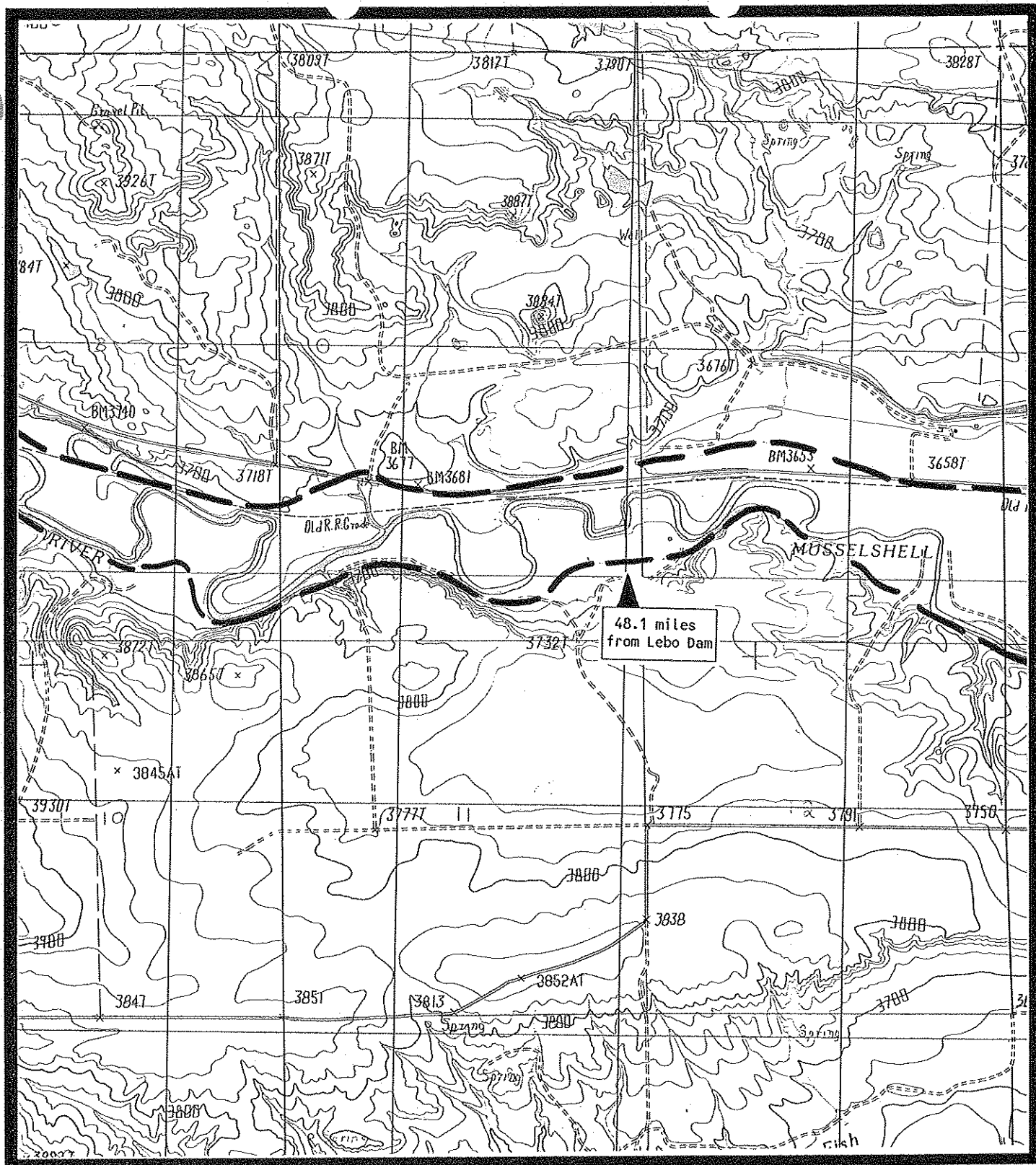


MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 16



FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 18



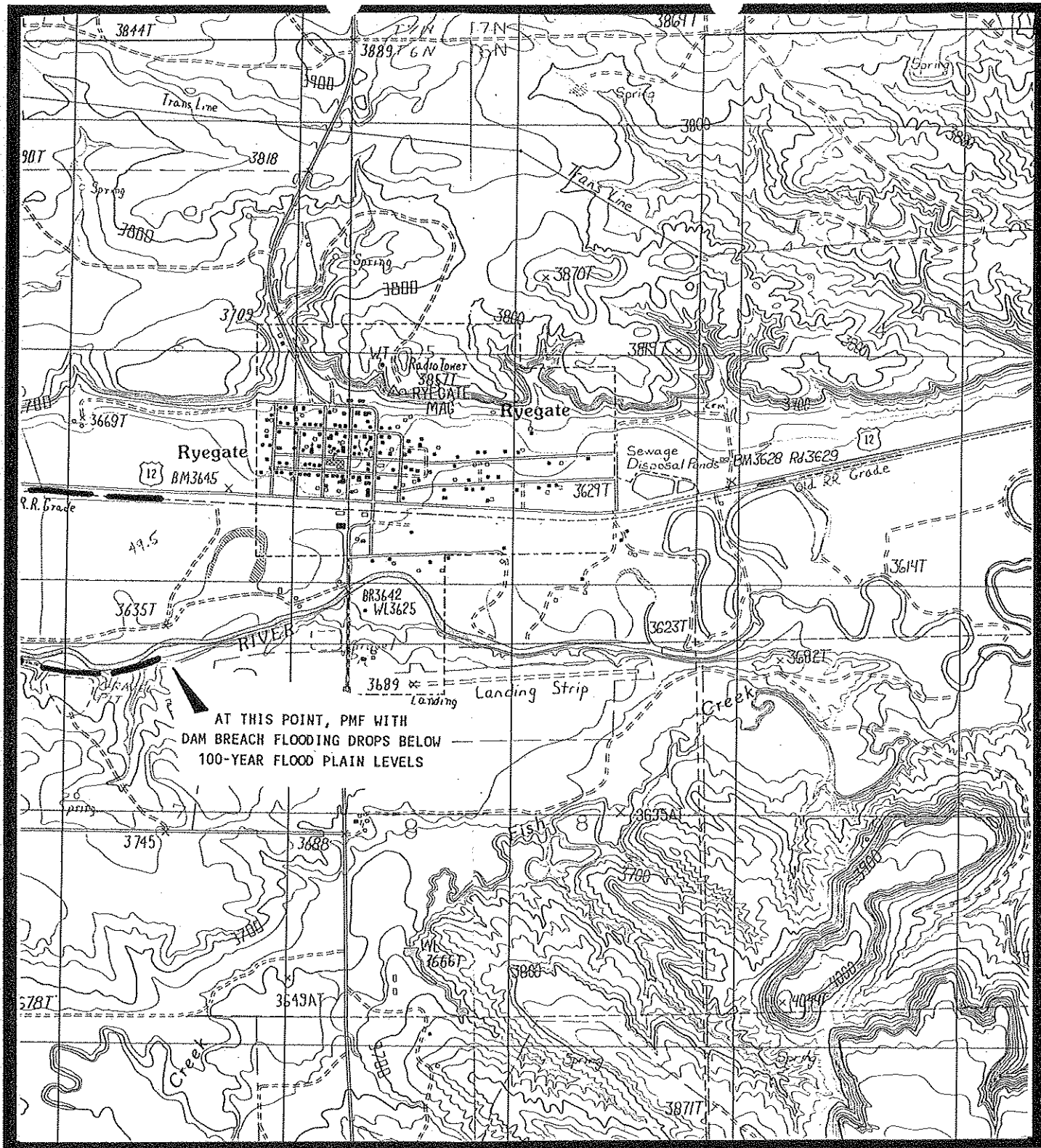
MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 17



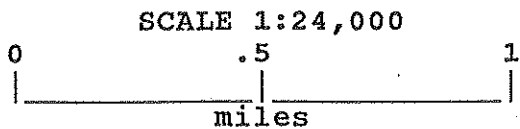
SCALE 1:24,000
0 .5 1
miles

FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 19



MONTANA DAM FAILURE FLOOD MAPPING
LEBO LAKE DAM #2 (MT-653)
REACH 19



FLOOD BOUNDARIES
CLEAR WEATHER BREACH ———
PMF WITH BREACH - - -

FIGURE 20

APPENDIX C Telephone Directory

Appendix C
TELEPHONE DIRECTORY

A. Priority One

1. SHERIFF Wheatland County 911 or 632-5614
2. DISASTER AND EMERGENCY SERVICES Wheatland County Office: 632-5815
EMERGENCY NUMBER 911
David Jones
Les Christensen Home: ~~632-4615~~ ⁶³²⁻⁵⁸¹⁵
- Montana Disaster and Emergency Services Division (Helena) 841-3911
3. EVACUEES (in upstream-to-downstream sequence)
-
-

B. Priority Two

4. LOCAL ENGINEERS

~~Roger Perkins, P.E.~~
~~Aquoneering~~
~~1555 Sage Circle~~
~~Laurel MT 59044~~
~~628-2202~~

5. MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

Dam Safety Section Engineers: Office: 444-6613/6664

Ms. Michele Lemieux, (Soils and Embankments) Home: ^{cell} 225-9062-459-3372

~~Mr. Terry Voelter~~ (Spillways and Hydrology) Home: 442-9638

Water Operations Bureau Office: 444-0860

Mr. Laurence Siroky, Bureau Chief Home: 442-2806

6. NATIONAL WEATHER SERVICE

Missoula 329-4718

Great Falls 453-9642

Billings 652-2314

7. AMERICAN FORK RANCH

Jed Evjene, Manager.....537-4405

8. THE GLENNIE RANCHES

Jane Glennie, Manager632-4159

APPENDIX D Dam Incident Report Form

APPENDIX D
DAM INCIDENT REPORT FORM

DATE _____ TIME _____

NAME OF DAM _____

STREAM NAME _____

LOCATION _____

COUNTY _____

OBSERVER _____

OBSERVER TELEPHONE _____

NATURE OF PROBLEM _____

LOCATION OF PROBLEM AREA (Looking Downstream) _____

EXTENT OF PROBLEM AREA _____

FLOW QUANTITY AND COLOR _____

WATER LEVEL IN RESERVOIR _____

IS SITUATION WORSENING? _____

EMERGENCY STATUS _____

CURRENT WEATHER CONDITIONS _____

ADDITIONAL COMMENTS _____

APPENDIX D
DAM INCIDENT REPORT FORM

DATE _____ TIME _____

NAME OF DAM _____

STREAM NAME _____

LOCATION _____

COUNTY _____

OBSERVER _____

OBSERVER TELEPHONE _____

NATURE OF PROBLEM _____

LOCATION OF PROBLEM AREA (Looking Downstream) _____

EXTENT OF PROBLEM AREA _____

FLOW QUANTITY AND COLOR _____

WATER LEVEL IN RESERVOIR _____

IS SITUATION WORSENING? _____

EMERGENCY STATUS _____

CURRENT WEATHER CONDITIONS _____

ADDITIONAL COMMENTS _____
